



**Quarterly Progress Report #14
July/August/September 2016**

To:	Brian Kelly, U.S. EPA Christopher Black, U.S. EPA Richard Clarizio, U.S. EPA Lori Kozel, Tetra Tech Licia Yangouyan, City of Dearborn Alan Loebach, City of Dearborn Amina El-Husseini, City of Dearborn	Ref. No.:	048041
<i>M.T.</i>			
From:	Glenn Turchan, Project Coordinator/kf/14	Date:	October 7, 2016
CC:	Colleen Liddell, Ford Bert Richnafsky, Weavertown Grant Gilezan, Dykema Gossett		
Re:	Removal Action Quarterly Progress Report #14 (July, August, and September 2016) (Pursuant to Section 92 of the AOC and Section 3.2 of the Removal Action Work Plan) Former Dearborn Refining Site Dearborn, Michigan		

A. Due Date: October 17, 2016

B. Previous Activities – July/August/September

- Prepared and submitted Quarterly Progress Report #13 to the United States Environmental Protection Agency (U.S. EPA), Tetra Tech, Inc. (Tetra Tech), and the City of Dearborn for April, May, and June 2016 on July 14, 2016.
- Completed the July, August, and September 2016 quarterly Operation, Maintenance, and Monitoring (OMM) activities including the annual groundwater monitoring well (perched water) and gas probe sampling (vapor) on August 11 and 12, 2016. The inspection forms are presented in Attachment A. Water levels for the OMM wells are presented in Table 1. Light non-aqueous phase liquid (LNAPL) observations for all Site and sentry wells are presented in Table 2. Gas probe pressure readings are presented in Table 3. The groundwater levels, LNAPL observations, and gas probe readings are presented on Figure 1. The methane monitoring results are presented in Table 4. The methane monitoring results are presented on Figure 2. The annual groundwater monitoring analytical data are presented in Table 5. The annual gas probe monitoring analytical data are presented in Tables 6 and



7. It should be noted that the groundwater and chemical-specific vapor data do not exceed pertinent Act 451, Part 201 criteria or guidance vapor values.
- The City of Dearborn completed the quarterly inspection on August 18, 2016 (see Attachment A for the inspections forms and Site photographs).
- Coordinated with the City of Dearborn regarding an amendment to the recorded Restrictive Covenant (RC).
- Received U.S. EPA email comments regarding the July, August, and September 2016 quarterly OMM methane readings on August 19, 2016.
- Prepared and submitted the Response to Comments Memorandum regarding the August 19, 2016 U.S. EPA comments (Response to Comments Memorandum) to the U.S. EPA, Tetra Tech, and City of Dearborn on September 2, 2016. The Response to Comments Memorandum identified additional methane Scope of Work (SOW) that was not approved by the U.S. EPA and will not be implemented at this time.
- Received additional email comments regarding the July, August, and September 2016 quarterly OMM methane readings from the U.S. EPA on September 21, 2016.
- Prepared and submitted additional methane SOW tasks to the U.S. EPA, Tetra Tech, and City of Dearborn on September 27, 2016.

C. Site Sample Analytical Data

- Air Monitoring:
 - Methane monitoring
- Waste Compatibility Analyses:
 - None
- Waste Characterization Analyses:
 - None
- Soil and Groundwater Investigation:
 - Monitoring well and gas probe annual chemical sampling for 2016
- ACM Abatement:
 - None



D. Document Submittals/Work Plan Modification

- Submittals:
 - Quarterly Progress Report #13 to the U.S. EPA, Tetra Tech, and City of Dearborn on July 14, 2016
 - Response to Comments Memorandum to the U.S. EPA, Tetra Tech, and City of Dearborn via email on September 2, 2016
 - Additional methane SOW to the U.S. EPA, Tetra Tech, and City of Dearborn via email on September 27, 2016
- Revision Requests:
 - None
- Work Plan Revisions:
 - None

E. Issues Identified

- New Issues and Planned Resolution:
 - None
- Previously Identified Issues Pending Resolution:
 - Methane vapor

The installation of the passive ventilation trench (PVT) and additional wind turbines in November and December 2015 appear to have decreased the subsurface methane vapor present on Site, particularly at the northern Site boundary. Methane has not been detected at GP-1-12 in 2016. Methane was detected at MW14-12 (sentry well located south of the Site) at 3.80 percent during the third quarterly monitoring event. The third quarterly monitoring event is the only quarterly monitoring event that occurs after the gas vents have been closed. Methane was not detected in the sentry wells in the remaining 2016 quarterly monitoring events during the first and second quarter (when the gas vents were open).

Following receipt of comments from the U.S. EPA and discussion of additional methane SOW with the U.S. EPA, it was proposed on September 27, 2016 that additional methane monitoring would be completed and a work plan for a methane gas investigation would be prepared and submitted to the U.S. EPA. The additional methane monitoring will be completed on October 13, 2016 to monitor the methane with the vents open (e.g., normal operating procedures). The Methane Gas Investigation Work Plan (Work Plan) was submitted to the U.S. EPA on October 7, 2016. It should be noted that the implementation of the investigation will require access from the



current property owner (Ferrous Processing & Trading, Co. [FPT]). In addition, methane will continue to be monitored quarterly.

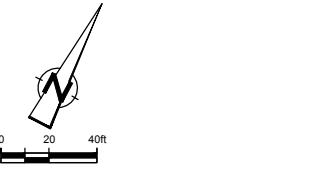
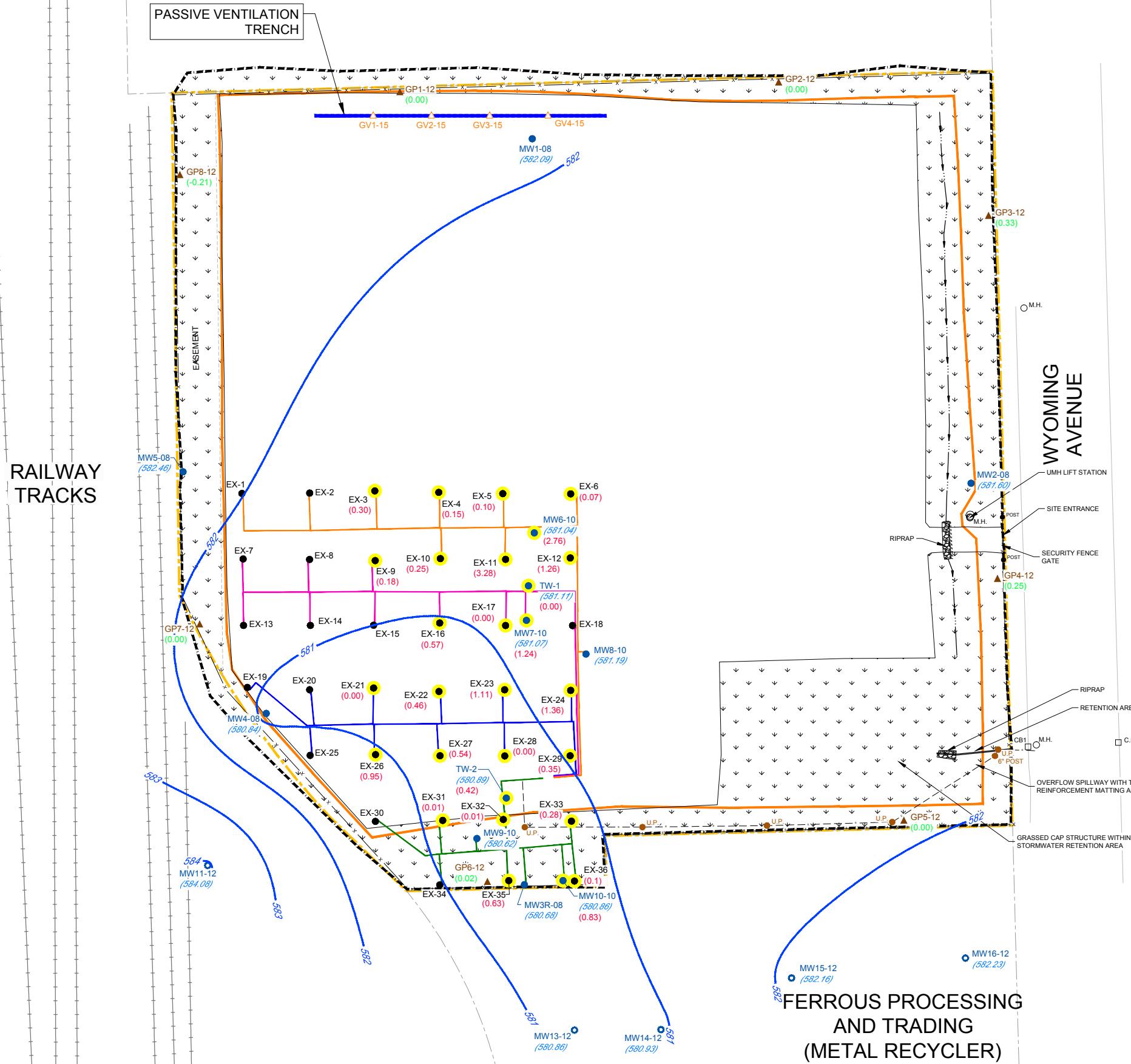
F. Current/Projected Work – October/November/December 2016

- Submit Quarterly Progress Report #14 for July/August/September 2016.
- Coordinate with the City of Dearborn regarding an amendment to the recorded Site RC.
- OMM activities, including:
 - Quarterly monitoring of water and LNAPL levels.
 - Quarterly methane and gas probe pressure monitoring.
- Coordinate additional methane monitoring (identified as Task 1 in the September 27, 2016 additional methane SOW) for October 13, 2016 and provide notification to the U.S. EPA and Tetra Tech on September 29, 2016.
- Prepare and submit the Work Plan to the U.S. EPA and Tetra Tech on October 7, 2016 to present the SOW for the Methane Delineation Study (identified as Task 2 in the September 27, 2016 additional methane SOW).
- Implement the Work Plan (dependent on access from FPT).

G. Status of Schedule

- Scheduling:
 - Schedules to adhere to the April 17, 2013 Project Schedule (Revision 11) as approved by the U.S. EPA on May 22, 2013.

LIBERTY TRUCK SERVICES (TRUCK REPAIR)



0 20 40ft

N

1"

1"

GHD

Source Reference:

Project Manager:
G. TURCHAN

Reviewed By:
M. BARRERA

Date:
August 2016

Scale:
AS SHOWN

Project No.:
48041-00

Report No.:
PRES052

Drawing No.:
figure 1

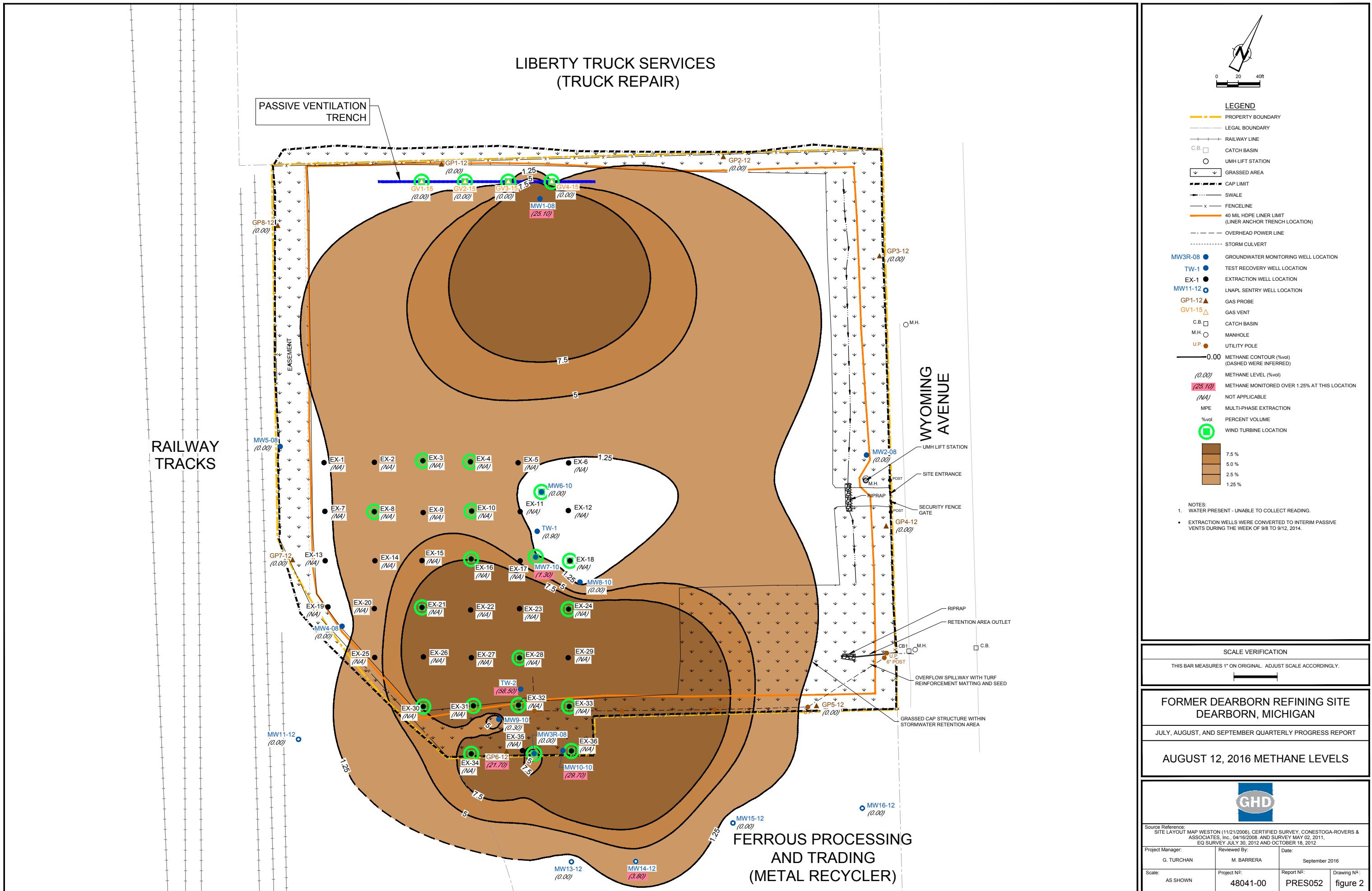


Table 1

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Hydraulic Measurements
Quarterly Progress Report #14 (July, August, and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW1-08	4/24/2013	592.55	--	8.60	--	--	583.95	583.95
MW1-08	5/23/2013	592.55	--	8.62	--	--	583.93	583.93
MW1-08	6/20/2013	592.55	--	8.46	--	--	584.09	584.09
MW1-08	7/25/2013	592.55	--	7.80	--	--	584.75	584.75
MW1-08	8/29/2013	592.55	--	8.77	--	--	583.78	583.78
MW1-08	9/27/2013	592.55	--	9.76	--	--	582.79	582.79
MW1-08	10/22/2013	592.55	--	9.97	--	--	582.58	582.58
MW1-08	11/21/2013	592.55	--	10.61	--	--	581.94	581.94
MW1-08	12/11/2013	592.55	--	10.73	--	--	581.82	581.82
MW1-08	1/15/2014	592.55	--	10.47	--	--	582.08	582.08
MW1-08	2/26/2014	592.55	--	10.56	--	--	581.99	581.99
MW1-08	3/25/2014	592.55	--	9.89	--	--	582.66	582.66
MW1-08	5/5/2014	592.55	--	9.27	--	--	583.28	583.28
MW1-08	9/19/2014	592.55	--	7.98	--	--	584.57	584.57
MW1-08	12/11/2014	591.41	--	8.90	--	--	582.51	582.51
MW1-08	3/9/2015	591.41	--	9.86	--	--	581.55	581.55
MW1-08	6/1/2015	591.41	--	8.75	--	--	582.66	582.66
MW1-08	8/5/2015	591.41	--	8.56	--	--	582.85	582.85
MW1-08	1/8/2016	591.41	--	9.09	--	--	582.32	582.32
MW1-08	3/18/2016	591.41	--	8.31	--	--	583.10	583.10
MW1-08	5/26/2016	591.41	--	7.93	--	--	583.48	583.48
MW1-08	8/12/2016	591.41	--	9.32	--	--	582.09	582.09
MW2-08	4/24/2013	591.76	--	7.09	--	--	584.67	584.67
MW2-08	5/23/2013	591.76	--	8.23	--	--	583.53	583.53
MW2-08	6/20/2013	591.76	--	8.18	--	--	583.58	583.58
MW2-08	7/25/2013	591.76	--	6.70	--	--	585.06	585.06
MW2-08	8/29/2013	591.76	--	8.04	--	--	583.72	583.72
MW2-08	9/27/2013	591.76	--	8.58	--	--	583.18	583.18
MW2-08	10/22/2013	591.76	--	8.91	--	--	582.85	582.85
MW2-08	11/21/2013	591.76	--	9.17	--	--	582.59	582.59
MW2-08	12/11/2013	591.76	--	9.10	--	--	582.66	582.66
MW2-08	1/15/2014	591.76	--	7.56	--	--	584.20	584.20
MW2-08	2/26/2014	591.76	--	7.85	--	--	583.91	583.91
MW2-08	3/25/2014	591.76	(1)	(1)	(1)	(1)	(1)	(1)
MW2-08	5/5/2014	591.76	(1)	(1)	(1)	(1)	(1)	(1)
MW2-08	9/19/2014	591.76	--	7.80	--	--	583.96	583.96
MW2-08	12/11/2014	590.64	--	8.06	--	--	582.58	582.58
MW2-08	3/9/2015	590.64	--	8.72	--	--	581.92	581.92
MW2-08	6/1/2015	590.64	--	7.52	--	--	583.12	583.12
MW2-08	8/5/2015	590.64	--	8.47	--	--	582.17	582.17
MW2-08	1/8/2016	590.64	--	7.47	--	--	583.17	583.17
MW2-08	3/18/2016	590.64	--	6.32	--	--	584.32	584.32
MW2-08	5/26/2016	590.64	--	8.13	--	--	582.51	582.51
MW2-08	8/12/2016	590.64	--	9.04	--	--	581.60	581.60
MW3R-08	4/24/2013	589.11	4.90	4.90	trace	584.21	584.21	584.21
MW3R-08	5/23/2013	589.11	6.51	6.51	trace	582.60	582.60	582.60
MW3R-08	6/20/2013	589.11	--	5.60	--	--	583.51	583.51
MW3R-08	7/25/2013	589.11	--	4.71	trace	--	584.40	584.40
MW3R-08	8/29/2013	589.11	--	7.34	trace	--	581.77	581.77
MW3R-08	9/27/2013	589.11	--	7.83	--	--	581.28	581.28
MW3R-08	10/22/2013	589.11	--	8.50	trace	--	580.61	580.61
MW3R-08	11/21/2013	589.11	--	8.67	trace	--	580.44	580.44
MW3R-08	12/11/2013	589.11	--	8.44	trace	--	580.67	580.67
MW3R-08	1/15/2014	589.11	--	6.78	--	--	582.33	582.33
MW3R-08	2/26/2014	589.11	--	7.15	--	--	581.96	581.96
MW3R-08	3/25/2014	589.11	--	6.19	--	--	582.92	582.92
MW3R-08	5/5/2014	589.11	--	6.13	--	--	582.98	582.98
MW3R-08	9/19/2014	589.11	--	5.39	--	--	583.72	583.72
MW3R-08	12/11/2014	587.87	--	6.08	trace	--	581.79	581.79
MW3R-08	3/9/2015	587.87	--	6.37	--	--	581.50	581.50
MW3R-08	6/1/2015	587.87	--	5.10	--	--	582.77	582.77
MW3R-08	8/5/2015	587.87	--	6.15	--	--	581.72	581.72
MW3R-08	1/8/2016	587.87	--	5.65	--	--	582.22	582.22
MW3R-08	3/18/2016	587.87	--	5.22	--	--	582.65	582.65
MW3R-08	5/26/2016	587.87	--	5.87	--	--	582.00	582.00
MW3R-08	8/12/2016	587.87	--	7.19	--	--	580.68	580.68
MW4-08	4/24/2013	591.76	--	8.78	--	--	582.98	582.98
MW4-08	5/23/2013	591.76	--	8.71	--	--	583.05	583.05
MW4-08	6/20/2013	591.76	--	8.15	--	--	583.61	583.61

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Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW4-08	7/25/2013	591.76	--	7.47	trace	--	584.29	584.29
MW4-08	8/29/2013	591.76	--	9.97	--	--	581.79	581.79
MW4-08	9/27/2013	591.76	--	10.21	--	--	581.55	581.55
MW4-08	10/22/2013	591.76	--	10.35	--	--	581.41	581.41
MW4-08	11/21/2013	591.76	--	11.42	--	--	580.34	580.34
MW4-08	12/11/2013	591.76	--	11.00	--	--	580.76	580.76
MW4-08	1/15/2014	591.76	--	10.12	--	--	581.64	581.64
MW4-08	2/26/2014	591.76	--	9.94	--	--	581.82	581.82
MW4-08	3/25/2014	591.76	--	8.84	--	--	582.92	582.92
MW4-08	5/5/2014	591.76	--	8.80	--	--	582.96	582.96
MW4-08	9/19/2014	591.76	--	7.72	--	--	584.04	584.04
MW4-08	12/11/2014	590.35	--	8.81	--	--	581.54	581.54
MW4-08	3/9/2015	590.35	--	9.72	--	--	580.63	580.63
MW4-08	6/1/2015	590.35	--	8.41	--	--	581.94	581.94
MW4-08	8/5/2015	590.35	--	8.82	--	--	581.53	581.53
MW4-08	1/8/2016	590.35	--	8.75	--	--	581.60	581.60
MW4-08	3/18/2016	590.35	--	7.74	--	--	582.61	582.61
MW4-08	5/26/2016	590.35	--	8.05	--	--	582.30	582.30
MW4-08	8/12/2016	590.35	--	9.51	--	--	580.84	580.84
MW5-08	4/24/2013	588.26	--	1.07	--	--	587.19	587.19
MW5-08	5/23/2013	588.26	--	3.51	--	--	584.75	584.75
MW5-08	6/20/2013	588.26	--	3.05	--	--	585.21	585.21
MW5-08	7/25/2013	588.26	--	0.15	--	--	588.11	588.11
MW5-08	8/29/2013	588.26	--	3.75	--	--	584.51	584.51
MW5-08	9/27/2013	588.26	--	4.04	--	--	584.22	584.22
MW5-08	10/22/2013	588.26	--	4.54	--	--	583.72	583.72
MW5-08	11/21/2013	588.26	--	3.61	--	--	584.65	584.65
MW5-08	12/11/2013	588.26	--	4.36	--	--	583.90	583.90
MW5-08	1/15/2014	588.26	--	0.73	--	--	587.53	587.53
MW5-08	2/26/2014	588.26	--	3.00	--	--	585.26	585.26
MW5-08	3/25/2014	588.26	--	2.50	--	--	585.76	585.76
MW5-08	5/5/2014	588.26	--	3.17	--	--	585.09	585.09
MW5-08	9/19/2014	588.26	--	2.71	--	--	585.55	585.55
MW5-08	12/11/2014	587.11	--	3.71	--	--	583.40	583.40
MW5-08	3/9/2015	587.11	--	0.58	--	--	586.53	586.53
MW5-08	6/1/2015	587.11	--	0.70	--	--	586.41	586.41
MW5-08	8/5/2015	587.11	--	3.22	--	--	583.89	583.89
MW5-08	1/8/2016	587.11	--	3.45	--	--	583.66	583.66
MW5-08	3/18/2016	587.11	--	2.69	--	--	584.42	584.42
MW5-08	5/26/2016	587.11	--	2.98	--	--	584.13	584.13
MW5-08	8/12/2016	587.11	--	4.65	--	--	582.46	582.46
MW6-10	4/24/2013	592.71	8.42	11.64	3.22	584.29	581.07	583.97
MW6-10	5/23/2013	592.71	9.18	12.55	3.37	583.53	580.16	583.19
MW6-10	6/20/2013	592.71	8.63	12.27	3.64	584.08	580.44	583.71
MW6-10	7/25/2013	592.71	--	10.09	trace	--	582.62	582.62
MW6-10	8/29/2013	592.71	--	11.92	trace	--	580.79	580.79
MW6-10	9/27/2013	592.71	10.85	12.57	1.72	581.86	580.14	581.69
MW6-10	10/22/2013	592.71	10.89	12.76	1.87	581.82	579.95	581.63
MW6-10	11/21/2013	592.71	12.32	12.72	0.40	580.39	579.99	580.35
MW6-10	12/11/2013	592.71	12.14	12.15	0.01	580.57	580.56	580.57
MW6-10	1/15/2014	592.71	--	12.54	trace	--	580.17	580.17
MW6-10	2/26/2014	592.71	10.88	10.95	0.07	581.83	581.76	581.82
MW6-10	3/25/2014	592.71	(2)	(2)	0.33 (2)	(2)	(2)	(2)
MW6-10	5/5/2014	592.71	(2)	(2)	2.13 (2)	(2)	(2)	(2)
MW6-10	9/19/2014	592.71	(2)	(2)	3.65 (2)	(2)	(2)	(2)
MW6-10	12/11/2014	591.56	9.54	12.27	2.73	582.02	579.29	581.75
MW6-10	3/9/2015	591.56	10.60	12.61	2.01	580.96	578.95	580.76
MW6-10	6/1/2015	591.56	9.28	12.00	2.72	582.28	579.56	582.01
MW6-10	8/5/2015	591.56	9.29	12.40	3.11	582.27	579.16	581.96
MW6-10	1/8/2016	591.56	9.55	12.12	2.57	582.01	579.44	581.75
MW6-10	3/18/2016	591.56	8.60	11.87	3.27	582.96	579.69	582.63
MW6-10	5/26/2016	591.56	8.68	12.68	4.00	582.88	578.88	582.48
MW6-10	8/12/2016	591.56	10.24	13.00	2.76	581.32	578.56	581.04
MW7-10	4/24/2013	592.21	8.25	10.42	2.17	583.96	581.79	583.75
MW7-10	5/23/2013	592.21	9.05	10.61	1.56	583.16	581.60	583.01
MW7-10	6/20/2013	592.21	8.39	10.55	2.16	583.82	581.66	583.61
MW7-10	7/25/2013	592.21	--	10.30	trace	--	581.91	581.91
MW7-10	8/29/2013	592.21	--	11.44	trace	--	580.77	580.77
MW7-10	9/27/2013	592.21	10.61	11.02	0.41	581.60	581.19	581.56

Table 1

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Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW7-10	10/22/2013	592.21	10.77	11.15	0.38	581.44	581.06	581.41
MW7-10	11/21/2013	592.21	--	11.92	trace	--	580.29	580.29
MW7-10	12/11/2013	592.21	--	11.57	trace	--	580.64	580.64
MW7-10	1/15/2014	592.21	11.22	11.37	0.15	580.99	580.84	580.98
MW7-10	2/26/2014	592.21	10.38	10.41	0.03	581.83	581.80	581.83
MW7-10	3/25/2014	592.21	9.36	9.78	0.42	582.85	582.43	582.81
MW7-10	5/5/2014	592.21	9.14	10.14	1.00	583.07	582.07	582.97
MW7-10	9/19/2014	592.21	7.77	10.98	3.21	584.44	581.23	584.12
MW7-10	12/11/2014	591.01	9.00	10.98	1.98	582.01	580.03	581.81
MW7-10	3/9/2015	591.01	10.08	11.43	1.35	580.93	579.58	580.80
MW7-10	6/1/2015	591.01	8.78	10.40	1.62	582.23	580.61	582.07
MW7-10	8/5/2015	591.01	8.83	10.86	2.03	582.18	580.15	581.98
MW7-10	1/8/2016	591.01	9.06	10.41	1.35	581.95	580.60	581.82
MW7-10	3/18/2016	591.01	8.13	10.07	1.94	582.88	580.94	582.69
MW7-10	5/26/2016	591.01	8.21	11.35	3.14	582.80	579.66	582.49
MW7-10	8/12/2016	591.01	9.82	11.06	1.24	581.19	579.95	581.07
MW8-10	4/24/2013	592.24	--	8.68	--	--	583.56	583.56
MW8-10	5/23/2013	592.24	--	9.39	--	--	582.85	582.85
MW8-10	6/20/2013	592.24	--	8.74	--	--	583.50	583.50
MW8-10	7/25/2013	592.24	--	9.08	--	--	583.16	583.16
MW8-10	8/29/2013	592.24	--	11.13	--	--	581.11	581.11
MW8-10	9/27/2013	592.24	--	10.82	--	--	581.42	581.42
MW8-10	10/22/2013	592.24	--	11.00	--	--	581.24	581.24
MW8-10	11/21/2013	592.24	--	12.04	--	--	580.20	580.20
MW8-10	12/11/2013	592.24	--	11.67	--	--	580.57	580.57
MW8-10	1/15/2014	592.24	--	11.35	--	--	580.89	580.89
MW8-10	2/26/2014	592.24	--	10.54	--	--	581.70	581.70
MW8-10	3/25/2014	592.24	--	9.51	--	--	582.73	582.73
MW8-10	5/5/2014	592.24	--	9.33	--	--	582.91	582.91
MW8-10	9/19/2014	592.24	--	8.20	--	--	584.04	584.04
MW8-10	12/11/2014	591.18	--	9.27	--	--	581.91	581.91
MW8-10	3/9/2015	591.18	--	10.33	--	--	580.85	580.85
MW8-10	6/1/2015	591.18	--	9.10	--	--	582.08	582.08
MW8-10	8/5/2015	591.18	--	9.10	--	--	582.08	582.08
MW8-10	1/8/2016	591.18	--	9.01	--	--	582.17	582.17
MW8-10	3/18/2016	591.18	--	8.28	--	--	582.90	582.90
MW8-10	5/26/2016	591.18	--	8.54	--	--	582.64	582.64
MW8-10	8/12/2016	591.18	--	9.99	--	--	581.19	581.19
MW9-10	4/24/2013	591.79	--	8.08	--	--	583.71	583.71
MW9-10	5/23/2013	591.79	--	9.20	--	--	582.59	582.59
MW9-10	6/20/2013	591.79	--	8.47	--	--	583.32	583.32
MW9-10	7/25/2013	591.79	--	7.78	--	--	584.01	584.01
MW9-10	8/29/2013	591.79	--	10.09	--	--	581.70	581.70
MW9-10	9/27/2013	591.79	--	10.52	--	--	581.27	581.27
MW9-10	10/22/2013	591.79	--	11.26	--	--	580.53	580.53
MW9-10	11/21/2013	591.79	--	11.35	--	--	580.44	580.44
MW9-10	12/11/2013	591.79	--	11.12	--	--	580.67	580.67
MW9-10	1/15/2014	591.79	--	9.92	--	--	581.87	581.87
MW9-10	2/26/2014	591.79	--	10.08	--	--	581.71	581.71
MW9-10	3/25/2014	591.79	--	9.15	--	--	582.64	582.64
MW9-10	5/5/2014	591.79	--	9.07	--	--	582.72	582.72
MW9-10	9/19/2014	591.79	--	8.09	--	--	583.70	583.70
MW9-10	12/11/2014	590.43	--	9.12	--	--	581.31	581.31
MW9-10	3/9/2015	590.43	--	9.94	--	--	580.49	580.49
MW9-10	6/1/2015	590.43	--	8.39	--	--	582.04	582.04
MW9-10	8/5/2015	590.43	--	8.87	--	--	581.56	581.56
MW9-10	1/8/2016	590.43	--	9.05	--	--	581.38	581.38
MW9-10	3/18/2016	590.43	--	8.11	--	--	582.32	582.32
MW9-10	5/26/2016	590.43	--	8.48	--	--	581.95	581.95
MW9-10	8/12/2016	590.43	--	9.81	--	--	580.62	580.62
MW10-10	4/24/2013	589.66	5.99	6.06	0.07	583.67	583.60	583.66
MW10-10	5/23/2013	589.66	7.10	8.04	0.94	582.56	581.62	582.47
MW10-10	6/20/2013	589.66	6.31	6.72	0.41	583.35	582.94	583.31
MW10-10	7/25/2013	589.66	5.62	6.24	0.62	584.04	583.42	583.98
MW10-10	8/29/2013	589.66	7.84	8.88	1.04	581.82	580.78	581.72
MW10-10	9/27/2013	589.66	8.42	8.47	0.05	581.24	581.19	581.23
MW10-10	10/22/2013	589.66	--	9.89	trace	--	579.77	579.77
MW10-10	11/21/2013	589.66	9.07	9.64	0.57	580.59	580.02	580.53
MW10-10	12/11/2013	589.66	8.98	9.45	0.47	580.68	580.21	580.63

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Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW10-10	1/15/2014	589.66	7.76	8.11	0.35	581.90	581.55	581.86
MW10-10	2/26/2014	589.66	(3)	(3)	(3)	(3)	(3)	(3)
MW10-10	3/25/2014	589.66	--	7.07	--	--	582.59	582.59
MW10-10	5/5/2014	589.66	--	7.01	--	--	582.65	582.65
MW10-10	9/19/2014	589.66	5.95	6.04	0.09	583.71	583.62	583.70
MW10-10	12/11/2014	588.52	7.03	7.15	0.12	581.49	581.37	581.48
MW10-10	3/9/2015	588.52	7.95	8.50	0.55	580.57	580.02	580.52
MW10-10	6/1/2015	588.52	6.03	6.12	0.09	582.49	582.40	582.48
MW10-10	8/5/2015	588.52	6.85	7.32	0.47	581.67	581.20	581.63
MW10-10	1/8/2016	588.52	6.98	6.98	0.00	581.54	581.54	581.54
MW10-10	3/18/2016	588.52	--	5.25	--	--	583.27	583.27
MW10-10	5/26/2016	588.52	6.39	6.49	0.10	582.13	582.03	582.12
MW10-10	8/12/2016	588.52	7.58	8.41	0.83	580.94	580.11	580.86
MW11-12	4/24/2013	588.15	--	1.65	--	--	586.50	586.50
MW11-12	5/23/2013	588.15	--	2.13	--	--	586.02	586.02
MW11-12	6/20/2013	588.15	--	2.08	--	--	586.07	586.07
MW11-12	7/25/2013	588.15	--	0.72	--	--	587.43	587.43
MW11-12	8/29/2013	588.15	--	2.82	--	--	585.33	585.33
MW11-12	9/27/2013	588.15	--	2.98	--	--	585.17	585.17
MW11-12	10/22/2013	588.15	--	3.31	--	--	584.84	584.84
MW11-12	11/21/2013	588.15	--	2.22	--	--	585.93	585.93
MW11-12	12/11/2013	588.15	--	3.02	--	--	585.13	585.13
MW11-12	1/15/2014	588.15	--	1.32	--	--	586.83	586.83
MW11-12	2/26/2014	588.15	(3)	(3)	(3)	(3)	(3)	(3)
MW11-12	3/25/2014	588.15	--	1.19	--	--	586.96	586.96
MW11-12	5/5/2014	588.15	--	2.23	--	--	585.92	585.92
MW11-12	9/19/2014	588.15	--	1.75	--	--	586.40	586.40
MW11-12	12/11/2014	587.19	--	2.69	--	--	584.50	584.50
MW11-12	3/9/2015	587.19	(4)	(4)	(4)	(4)	(4)	(4)
MW11-12	6/1/2015	587.19	--	1.00	--	--	586.19	586.19
MW11-12	8/5/2015	587.19	--	1.62	--	--	585.57	585.57
MW11-12	1/8/2016	587.19	--	2.12	--	--	585.07	585.07
MW11-12	3/18/2016	587.19	--	0.93	--	--	586.26	586.26
MW11-12	5/26/2016	587.19	--	1.02	--	--	586.17	586.17
MW11-12	8/12/2016	587.19	--	3.11	--	--	584.08	584.08
MW13-12	4/24/2013	587.95	--	4.27	--	--	583.68	583.68
MW13-12	5/23/2013	587.95	--	5.21	--	--	582.74	582.74
MW13-12	6/20/2013	587.95	--	4.61	--	--	583.34	583.34
MW13-12	7/25/2013	587.95	--	3.82	--	--	584.13	584.13
MW13-12	8/29/2013	587.95	--	6.05	--	--	581.90	581.90
MW13-12	9/27/2013	587.95	--	6.66	--	--	581.29	581.29
MW13-12	10/22/2013	587.95	--	7.25	--	--	580.70	580.70
MW13-12	11/21/2013	587.95	--	7.31	--	--	580.64	580.64
MW13-12	12/11/2013	587.95	--	7.21	--	--	580.74	580.74
MW13-12	1/15/2014	587.95	--	5.91	--	--	582.04	582.04
MW13-12	2/26/2014	587.95	(3)	(3)	(3)	(3)	(3)	(3)
MW13-12	3/25/2014	587.95	--	5.33	--	--	582.62	582.62
MW13-12	5/5/2014	587.95	--	5.22	--	--	582.73	582.73
MW13-12	9/19/2014	587.95	--	4.14	--	--	583.81	583.81
MW13-12	12/11/2014	586.78	--	5.37	--	--	581.41	581.41
MW13-12	3/9/2015	586.78	--	6.33	--	--	580.45	580.45
MW13-12	6/1/2015	586.78	--	1.41	--	--	585.37	585.37
MW13-12	8/5/2015	586.78	--	3.05	--	--	583.73	583.73
MW13-12	1/8/2016	586.78	--	4.32	--	--	582.46	582.46
MW13-12	3/18/2016	586.78	--	1.10	--	--	585.68	585.68
MW13-12	5/26/2016	586.78	--	4.59	--	--	582.19	582.19
MW13-12	8/12/2016	586.78	--	5.92	--	--	580.86	580.86
MW14-12	4/24/2013	588.11	--	4.42	--	--	583.69	583.69
MW14-12	5/23/2013	588.11	--	5.31	--	--	582.80	582.80
MW14-12	6/20/2013	588.11	--	4.76	--	--	583.35	583.35
MW14-12	7/25/2013	588.11	--	4.20	--	--	583.91	583.91
MW14-12	8/29/2013	588.11	--	6.16	--	--	581.95	581.95
MW14-12	9/27/2013	588.11	--	6.82	--	--	581.29	581.29
MW14-12	10/22/2013	588.11	--	7.33	--	--	580.78	580.78
MW14-12	11/21/2013	588.11	--	7.42	--	--	580.69	580.69
MW14-12	12/11/2013	588.11	--	7.39	--	--	580.72	580.72
MW14-12	1/15/2014	588.11	--	5.23	--	--	582.88	582.88
MW14-12	2/26/2014	588.11	(3)	(3)	(3)	(3)	(3)	(3)
MW14-12	3/25/2014	588.11	--	5.35	--	--	582.76	582.76

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Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW14-12	5/5/2014	588.11	--	5.22	--	--	582.89	582.89
MW14-12	9/19/2014	588.11	--	3.94	--	--	584.17	584.17
MW14-12	12/11/2014	586.81	--	5.32	--	--	581.49	581.49
MW14-12	3/9/2015	586.81	(4)	(4)	(4)	(4)	(4)	(4)
MW14-12	6/1/2015	586.81	--	4.35	--	--	582.46	582.46
MW14-12	8/5/2015	586.81	--	4.98	--	--	581.83	581.83
MW14-12	1/8/2016	586.81	--	4.67	--	--	582.14	582.14
MW14-12	3/18/2016	586.81	--	3.40	--	--	583.41	583.41
MW14-12	5/26/2016	586.81	--	3.90	--	--	582.91	582.91
MW14-12	8/12/2016	586.81	--	5.88	--	--	580.93	580.93
MW15-12	4/24/2013	588.75	--	6.90	--	--	581.85	581.85
MW15-12	5/23/2013	588.75	--	3.87	--	--	584.88	584.88
MW15-12	6/20/2013	588.75	--	4.32	--	--	584.43	584.43
MW15-12	7/25/2013	588.75	--	3.71	--	--	585.04	585.04
MW15-12	8/29/2013	588.75	--	4.34	--	--	584.41	584.41
MW15-12	9/27/2013	588.75	--	5.26	--	--	583.49	583.49
MW15-12	10/22/2013	588.75	--	5.67	--	--	583.08	583.08
MW15-12	11/21/2013	588.75	--	6.17	--	--	582.58	582.58
MW15-12	12/11/2013	588.75	--	6.41	--	--	582.34	582.34
MW15-12	1/15/2014	588.75	--	5.98	--	--	582.77	582.77
MW15-12	2/26/2014	588.75	(3)	(3)	(3)	(3)	(3)	(3)
MW15-12	3/25/2014	588.75	--	5.48	--	--	583.27	583.27
MW15-12	5/5/2014	588.75	--	5.11	--	--	583.64	583.64
MW15-12	9/19/2014	588.75	--	3.97	--	--	584.78	584.78
MW15-12	12/11/2014	587.26	--	4.67	--	--	582.59	582.59
MW15-12	3/9/2015	587.26	(4)	(4)	(4)	(4)	(4)	(4)
MW15-12	6/1/2015	587.26	--	4.61	--	--	582.65	582.65
MW15-12	8/5/2015	587.26	--	4.60	--	--	582.66	582.66
MW15-12	1/8/2016	587.26	--	4.92	--	--	582.34	582.34
MW15-12	3/18/2016	587.26	--	3.98	--	--	583.28	583.28
MW15-12	5/26/2016	587.26	--	3.59	--	--	583.67	583.67
MW15-12	8/12/2016	587.26	--	5.10	--	--	582.16	582.16
MW16-12	4/24/2013	587.87	--	2.57	--	--	585.30	585.30
MW16-12	5/23/2013	587.87	--	2.91	--	--	584.96	584.96
MW16-12	6/20/2013	587.87	--	2.39	--	--	585.48	585.48
MW16-12	7/25/2013	587.87	--	1.53	--	--	586.34	586.34
MW16-12	8/29/2013	587.87	--	2.41	--	--	585.46	585.46
MW16-12	9/27/2013	587.87	--	3.24	--	--	584.63	584.63
MW16-12	10/22/2013	587.87	--	3.78	--	--	584.09	584.09
MW16-12	11/21/2013	587.87	--	4.16	--	--	583.71	583.71
MW16-12	12/11/2013	587.87	--	4.20	--	--	583.67	583.67
MW16-12	1/15/2014	587.87	--	1.26	--	--	586.61	586.61
MW16-12	2/26/2014	587.87	--	3.27	--	--	584.60	584.60
MW16-12	3/25/2014	587.87	--	3.01	--	--	584.86	584.86
MW16-12	5/5/2014	587.87	--	2.53	--	--	585.34	585.34
MW16-12	9/19/2014	587.87	--	2.25	--	--	585.62	585.62
MW16-12	12/11/2014	586.67	--	2.70	--	--	583.97	583.97
MW16-12	3/9/2015	586.67	(4)	(4)	(4)	(4)	(4)	(4)
MW16-12	6/1/2015	586.67	--	1.91	--	--	584.76	584.76
MW16-12	8/5/2015	586.67	--	2.89	--	--	583.78	583.78
MW16-12	1/8/2016	586.67	--	4.43	--	--	582.24	582.24
MW16-12	3/18/2016	586.67	--	2.96	--	--	583.71	583.71
MW16-12	5/26/2016	586.67	--	2.53	--	--	584.14	584.14
MW16-12	8/12/2016	586.67	--	4.44	--	--	582.23	582.23
TW-1	4/24/2013	592.43	--	8.53	--	--	583.90	583.90
TW-1	5/23/2013	592.43	9.35	9.35	trace	583.08	583.08	583.08
TW-1	6/20/2013	592.43	8.85	8.85	trace	583.58	583.58	583.58
TW-1	7/25/2013	592.43	8.77	8.81	0.04	583.66	583.62	583.66
TW-1	8/29/2013	592.43	--	11.43	--	--	581.00	581.00
TW-1	9/27/2013	592.43	10.84	10.87	0.03	581.59	581.56	581.59
TW-1	10/22/2013	592.43	10.93	10.98	0.05	581.50	581.45	581.50
TW-1	11/21/2013	592.43	--	12.20	--	--	580.23	580.23
TW-1	12/11/2013	592.43	--	11.91	trace	--	580.52	580.52
TW-1	1/15/2014	592.43	--	11.86	trace	--	580.57	580.57
TW-1	2/26/2014	592.43	--	10.67	trace	--	581.76	581.76
TW-1	3/25/2014	592.43	(2)	(2)	trace (2)	(2)	(2)	(2)
TW-1	5/5/2014	592.43	(2)	(2)	trace (2)	(2)	(2)	(2)
TW-1	9/19/2014	592.43	--	8.28	trace	--	584.15	584.15
TW-1	12/11/2014	591.22	--	9.41	trace	--	581.81	581.81

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Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
TW-1	3/9/2015	591.22	10.38	10.39	0.01	580.84	580.83	580.84
TW-1	6/1/2015	591.22	9.13	9.14	0.01	582.09	582.08	582.09
TW-1	8/5/2015	591.22	9.20	9.21	0.01	582.02	582.01	582.02
TW-1	1/8/2016	591.22	9.36	9.36	0.00	581.86	581.86	581.86
TW-1	3/18/2016	591.22	8.45	8.46	0.01	582.77	582.76	582.77
TW-1	5/26/2016	591.22	8.65	8.67	0.02	582.57	582.55	582.57
TW-1	8/12/2016	591.22	10.11	10.11	0.00	581.11	581.11	581.11
TW-2	4/24/2013	592.20	7.87	8.36	0.49	584.33	583.84	584.28
TW-2	5/23/2013	592.20	9.36	9.65	0.29	582.84	582.55	582.81
TW-2	6/20/2013	592.20	8.56	9.01	0.45	583.64	583.19	583.59
TW-2	7/25/2013	592.20	--	11.80	trace	--	580.40	580.40
TW-2	8/29/2013	592.20	--	10.36	--	--	581.84	581.84
TW-2	9/27/2013	592.20	10.79	10.83	0.04	581.41	581.37	581.40
TW-2	10/22/2013	592.20	10.95	11.01	0.06	581.25	581.19	581.24
TW-2	11/21/2013	592.20	--	11.67	trace	--	580.53	580.53
TW-2	12/11/2013	592.20	11.35	11.44	0.09	580.85	580.76	580.84
TW-2	1/15/2014	592.20	10.23	10.28	0.05	581.97	581.92	581.96
TW-2	2/26/2014	592.20	10.38	10.39	0.01	581.82	581.81	581.82
TW-2	3/25/2014	592.20	9.43	9.44	0.01	582.77	582.76	582.77
TW-2	5/5/2014	592.20	9.32	9.53	0.21	582.88	582.67	582.86
TW-2	9/19/2014	592.20	8.18	9.01	0.83	584.02	583.19	583.93
TW-2	12/11/2014	590.92	9.30	9.91	0.61	581.62	581.01	581.56
TW-2	3/9/2015	590.92	10.20	10.67	0.47	580.72	580.25	580.67
TW-2	6/1/2015	590.92	8.66	8.90	0.24	582.26	582.02	582.23
TW-2	8/5/2015	590.92	9.07	9.38	0.31	581.85	581.54	581.82
TW-2	1/8/2016	590.92	9.28	9.28	0.00	581.64	581.64	581.64
TW-2	3/18/2016	590.92	8.15	8.17	0.02	582.77	582.75	582.77
TW-2	5/26/2016	590.92	8.59	8.62	0.03	582.33	582.30	582.32
TW-2	8/12/2016	590.92	9.99	10.41	0.42	580.93	580.51	580.89

Notes:

ft	Feet
ft amsl	Feet above mean sea level
LNAPL	Light Non-Aqueous Phase Liquid
TOC	Top of casing
--	Not present
trace	Trace LNAPL present on oil/water interface probe
(1)	Damaged Well
(2)	The measuring point elevation (top of casing) needs to be re-verified
(3)	Unable to access due to snow and ice
(4)	Unable to measure level - area flooded

Table 2

LNAPL Thickness (Feet) Observations
Quarterly Progress Report #14 (July, August, and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Well ID	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	EX-7	EX-8	EX-9	EX-10	EX-11	EX-12	EX-13	EX-14	EX-15	EX-16	EX-17	EX-18	EX-19	EX-20	EX-21	EX-22	EX-23	EX-24	EX-25	EX-26	EX-27	EX-28
24-Apr-13	--	--	0.03	--	--	--	--	--	0.02	--	--	0.01	--	--	--	--	--	--	--	--	--	--	0.01	--	0.01	--	--	
23-May-13	--	--	0.17	--	0.04	--	--	--	0.24	--	0.31	0.78	--	--	--	0.09	--	--	--	--	0.16	0.36	0.03	1.52	--	0.50	--	--
20-Jun-13	--	--	0.12	--	trace	--	--	--	0.19	--	0.34	0.38	--	--	--	0.08	--	--	--	--	0.15	0.64	0.03	1.90	--	0.44	trace	0.06
25-Jul-13	--	--	0.15	trace	trace	--	--	--	--	--	0.57	--	--	--	--	0.15	trace	--	--	--	0.06	--	--	--	--	0.42	--	0.17
29-Aug-13	--	--	0.13	0.06	3.99	--	--	--	0.59	--	--	--	--	--	--	0.03	0.10	0.03	--	--	0.38	--	0.50	0.48	--	0.46	--	trace
27-Sep-13	--	--	0.23	0.17	--	--	--	--	0.39	0.16	0.13	1.60	--	--	--	0.22	0.14	--	--	--	0.11	0.08	0.30	0.69	--	0.52	0.31	0.12
22-Oct-13	--	--	0.24	0.23	0.52	--	--	--	0.50	0.22	0.34	1.97	--	--	--	0.28	0.14	--	--	--	0.19	0.08	0.50	1.07	--	0.65	0.66	0.11
21-Nov-13	--	--	0.19	0.10	--	--	--	--	0.10	0.12	--	0.02	--	--	--	0.05	0.01	--	--	--	0.03	0.20	0.09	2.35	--	0.19	0.04	0.16
11-Dec-13	--	--	0.03	--	--	--	--	--	0.01	--	0.01	--	--	--	--	--	trace	--	--	--	trace	0.11	0.02	1.02	--	0.64	--	0.12
15-Jan-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	trace	--	--	--	--	--	0.03	0.01	0.38	--	--	--	0.11
26-Feb-14	--	--	--	0.02	--	--	--	--	--	--	0.51	--	--	--	--	--	--	--	--	--	--	0.01	0.05	0.13	--	trace	0.07	0.11
25-Mar-14	--	--	--	--	--	--	--	--	--	--	0.50	--	--	--	--	--	--	--	--	--	--	--	0.03	0.42	--	--	--	
5-May-14	--	--	trace	trace	0.01	--	--	--	0.01	--	trace	0.35	--	--	--	0.02	--	--	--	--	--	0.09	0.01	0.97	--	trace	--	0.01
19-Sep-14	--	--	0.06	trace	0.01	--	--	--	0.02	0.02	trace	0.26	--	--	--	0.42	trace	--	--	--	0.01	1.75	0.02	2.34	--	0.86	0.01	0.22
11-Dec-14	--	--	0.28	0.04	trace	--	--	--	0.06	0.16	0.67	2.57	--	--	--	0.63	--	--	--	--	0.15	0.46	0.46	1.1	--	0.53	0.08	0.37
9-Mar-15	--	--	0.39	0.30	0.04	--	--	--	0.20	0.28	1.30	1.90	--	--	--	0.42	--	--	--	--	0.15	0.37	0.56	0.96	--	0.68	0.20	0.22
1-Jun-15	--	--	0.02	0.02	trace	--	--	--	0.02	trace	1.23	2.20	--	--	--	0.34	--	--	--	--	0.07	0.09	0.32	0.97	--	0.03	--	0.03
5-Aug-15	--	--	trace	0.07	trace	0.02	--	--	0.02	0.12	1.75	2.56	--	--	--	0.84	--	--	--	--	0.02	trace	0.01	1.4	--	0.59	0.02	0.2
8-Jan-16	--	--	trace	0.22	trace	0.11	--	--	0.07	0.01	1.83	1.44	--	--	--	0.22	--	--	--	--	0.13	trace	0.3	1.11	--	0.25	0.17	0.05
18-Mar-16	--	--	0.21	0.13	0.01	0.12	--	--	0.13	--	1.75	0.08	--	--	--	0.26	trace	--	--	--	0.04	0.11	0.13	1.61	--	0.38	--	0.01
26-May-16	--	--	0.23	0.15	0.01	0.07	--	--	0.11	0.01	2.17	0.62	--	--	--	0.18	0.01	--	--	--	0.09	0.19	0.14	1.96	--	0.74	0.31	0.02
12-Aug-16	--	--	0.3	0.15	0.1	0.07	--	--	0.18	0.25	3.28	1.26	--	--	--	0.57	trace	--	--	--	trace	0.46	1.11	1.36	--	0.95	0.54	trace

Notes:

ft Feet

LNAPL Light Non-Aqueous Phase Liquid

-- LNAPL not present

trace Trace LNAPL present on oil/water interface probe

(1) Well damaged just below ground surface. Unable to collect levels

(2) Unable to measure level - area flooded

Table 2

LNAPL Thickness (Feet) Observations
Quarterly Progress Report #14 (July, August, and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Well ID	EX-29	EX-30	EX-31	EX-32	EX-33	EX-34	EX-35	EX-36	MW1-08	MW2-08	MW3R-08	MW4-08	MW5-08	MW6-10	MW7-10	MW8-10	MW9-10	MW10-10	MW11-12	MW13-12	MW14-12	MW15-12	MW16-12	TW-1	TW-2	
24-Apr-13	0.29	--	0.01	0.13	--	--	--	--	--	trace	--	--	3.22	2.17	--	--	0.07	--	--	--	--	--	--	--	0.49	
23-May-13	--	--	0.03	--	--	--	--	--	--	trace	--	--	3.37	1.56	--	--	0.94	--	--	--	--	--	--	trace	0.29	
20-Jun-13	0.09	--	--	--	0.12	--	--	trace	--	--	--	--	3.64	2.16	--	--	0.41	--	--	--	--	--	--	trace	0.45	
25-Jul-13	0.03	--	trace	--	trace	--	--	0.01	--	--	trace	trace	--	trace	trace	--	--	0.62	--	--	--	--	--	0.04	trace	
29-Aug-13	0.46	--	0.07	10.85	0.64	--	0.64	0.73	--	--	trace	--	--	trace	trace	--	--	1.04	--	--	--	--	--	--	--	
27-Sep-13	0.62	--	0.17	--	--	--	trace	0.01	--	--	--	--	1.72	0.41	--	--	0.05	--	--	--	--	--	--	0.03	0.04	
22-Oct-13	1.01	--	0.25	--	--	--	--	--	--	trace	--	--	1.87	0.38	--	--	trace	--	--	--	--	--	--	0.05	0.06	
21-Nov-13	0.22	--	0.03	0.14	0.01	--	0.08	0.36	--	--	trace	--	--	0.40	trace	--	--	0.57	--	--	--	--	--	--	trace	
11-Dec-13	0.03	--	trace	0.12	--	--	0.02	0.17	--	--	trace	--	--	0.01	trace	--	--	0.47	--	--	--	--	--	--	trace	0.09
15-Jan-14	0.02	--	--	0.01	--	--	trace	0.28	--	--	--	--	trace	0.15	--	--	0.35	--	--	--	--	--	--	trace	0.05	
26-Feb-14	0.06	--	--	0.05	--	--	0.01	0.02	--	--	--	--	0.07	0.03	--	--	--	--	--	--	--	--	--	trace	0.01	
25-Mar-14	trace	--	--	0.03	--	--	0.02	0.02	--	--	--	--	0.33	0.42	--	--	--	--	--	--	--	--	--	trace	0.01	
5-May-14	0.05	trace	0.04	--	--	--	0.06	0.04	--	(1)	--	--	--	2.13	1.00	--	--	--	--	--	--	--	--	trace	0.21	
19-Sep-14	trace	--	--	trace	trace	--	0.07	0.63	--	--	--	--	3.65	3.21	--	--	0.09	--	--	--	--	--	--	trace	0.83	
11-Dec-14	0.15	--	--	0.37	0.01	--	0.12	0.43	--	--	trace	--	--	2.73	1.98	--	--	0.12	--	--	--	--	--	trace	0.61	
9-Mar-15	0.27	--	0.12	0.23	trace	--	0.41	0.46	--	--	--	--	2.01	1.35	--	--	0.55	(2)	--	(2)	(2)	(2)	(2)	0.01	0.47	
1-Jun-15	0.16	--	--	0.09	--	--	0.31	0.52	--	--	--	--	2.72	1.62	--	--	0.09	--	--	--	--	--	--	0.01	0.24	
5-Aug-15	0.33	--	--	0.06	trace	--	0.29	0.71	--	--	--	--	3.11	2.03	--	--	0.47	--	--	--	--	--	--	0.01	0.31	
8-Jan-16	0.31	--	0.07	0.16	trace	--	0.32	0.52	--	--	--	--	2.57	1.35	--	--	trace	--	--	--	--	--	--	0.01	trace	
18-Mar-16	0.31	--	0.04	0.35	0.01	--	0.45	0.5	--	--	--	--	3.27	1.94	--	--	--	--	--	--	--	--	--	0.01	0.02	
26-May-16	0.36	--	0.01	0.46	0.22	--	0.02	0.52	--	--	--	--	4	3.14	--	--	0.1	--	--	--	--	--	--	0.02	0.03	
12-Aug-16	0.35	--	0.01	0.01	0.28	--	0.63	0.1	--	--	--	--	2.76	1.24	--	--	0.83	--	--	--	--	--	--	trace	0.42	

Notes:

ft Feet

LNAPL Light Non-Aqueous Phase Liquid

-- LNAPL not present

trace Trace LNAPL present on oil/water interface probe

(1) Well damaged just below ground surface. Unable to collect levels

(2) Unable to measure level - area flooded

Table 3

Page 1 of 1

Pressure Measurements
Quarterly Progress Report #14 (July, August, and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Gas Probe ID	GP1-12 (inches H ₂ O)	GP2-12 (inches H ₂ O)	GP3-12 (inches H ₂ O)	GP4-12 (inches H ₂ O)	GP5-12 (inches H ₂ O)	GP6-12 (inches H ₂ O)	GP7-12 (inches H ₂ O)	GP8-12 (inches H ₂ O)
4/24/2013	-10.38	0.00	0.00	-0.59	15.10	-41.00	0.68	0.44
5/23/2013	-0.50	0.00	0.00	-0.14	0.96	-1.39	0.00	-9.50
6/20/2013	-0.13	0.00	0.00	0.82	13.70	0.00	0.50	0.00
7/25/2013	0.00	0.00	0.00	-4.29	2.68	-0.94	0.00	0.00
8/29/2013	0.00	0.00	0.00	0.00	3.13	-5.10	0.00	0.11
9/27/2013	0.00	0.00	0.00	-0.52	0.00	1.69	0.00	-5.63
10/22/2013	0.00	0.00	0.00	-0.19	0.00	-8.56	0.00	0.00
11/20/2013	0.00	0.00	0.00	0.00	0.00	-0.47	0.00	0.00
12/11/2013	0.00	0.00	0.00	-5.60	0.00	0.00	0.00	-5.60
1/15/2014	-0.19	⁽¹⁾	0.00	-0.61	-3.42	⁽²⁾	6.10	0.38
2/26/2014	⁽¹⁾							
3/24/2014	17.70	0.00	0.85	-4.54	-3.26	⁽³⁾	-5.75	0.00
5/5/2014	-3.53	0.00	0.00	-2.23	-3.01	-5.78	0.63	-0.48
8/15/2014	0.51	0.00	-0.66	-0.21	-2.83	-3.33	-1.02	0.00
9/19/2014	0.00	0.00	0.14	-1.72	-0.82	-1.09	-0.67	0.00
12/11/2014	0.00	4.45	-1.82	-6.18	0.00	-2.60	0.00	-4.46
3/9/2015	-0.02	0.00	-1.25	⁽⁴⁾	-2.00	0.00	0.11	-2.00
6/1/2015	-0.09	0.00	0.00	0.44	-3.30	-5.71	0.50	0.18
8/5/2015	0.00	0.00	0.00	0.00	0.00	-0.32	0.00	-0.50
11/30/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.04
1/8/2016	0.00	0.00	-0.22	-0.33	0.26	-2.78	0.00	2.20
3/18/2016	0.01	-0.02	-0.43	-0.42	-0.05	-2.00	0.00	0.12
5/26/2016	0.00	0.00	-0.34	-0.26	0.00	-8.15	0.00	-0.77
8/12/2016	0.00	0.00	0.33	0.25	0.00	0.02	0.00	-0.21

Notes:

Pressure measurements in inches of water column (H₂O)

Pressure measurements collected using a digital manometer

⁽¹⁾ Unable to locate due to snow and ice⁽²⁾ Unable to access due to ice⁽³⁾ Flooded - unable to collect reading⁽⁴⁾ Valve was open before collecting reading

Table 4

Methane Monitoring
 Quarterly Progress Report #14 (July, August, and September 2016)
 Former Dearborn Refining Site
 Dearborn, Michigan

Location ID	4/26/2013				4/29/2013				5/7/2013				6/5/2013				8/30/2013				9/26/2013				10/23/2013				11/20/2013				12/16/2013				1/16/2014			
	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)								
GP-1	0.0	2.2	17.2	3	nm	nm	nm	nm	0.1	9.1	0.2	2	0.0	0.3	16.3	2	0.0	8.0	0.3	2	0.0	8.2	1.8	2	0.0	0.7	19.8	2	0.0	1.0	19.8	2	0.0	1.0	19.8	2				
GP-2	0.0	1.9	16.2	3	nm	nm	nm	nm	0.0	5.0	5.2	2	0.0	0.2	5.5	2	0.0	6.1	10.4	2	0.0	6.3	16.0	2	0.0	0.3	3.2	14.7	2	0.0	0.3	3.2	14.7	2	0.0	0.3	3.2	14.7	2	
GP-3	0.0	0.0	20.7	3	nm	nm	nm	nm	0.0	7.9	1.9	2	0.0	0.0	13.4	1.6	2	0.0	13.1	1.2	2	0.0	11.5	2.4	2	0.0	0.0	8.3	3.9	2	0.0	0.0	6.6	6.1	2	0.0	0.0	6.6	6.1	2
GP-4	screen flooded				nm	nm	nm	nm	0.0	0.8	17.0	2	0.0	0.0	10.2	8.0	2	0.0	9.7	6.7	2	0.0	6.2	13.5	2	0.0	0.0	20.7	2	0.0	0.0	20.7	2	0.0	0.0	20.7	2			
GP-5	screen flooded				nm	nm	nm	nm	0.0	0.9	16.3	2	0.0	0.0	3.0	14.9	2	0.0	7.2	2.6	2	0.0	0.0	7.3	4.2	2	0.0	0.0	2.6	15.4	2	0.0	0.0	2.6	15.4	2				
GP-6	screen flooded				nm	nm	nm	nm	8.3	4.5	0.1	2	nm																											
GP-7	screen flooded				nm	nm	nm	nm	0.0	7.7	1.4	2	0.0	0.0	11.4	8.8	2	0.0	11.3	0.2	2	0.0	12.2	3.0	2	0.3	1.2	16.8	2	0.0	0.0	5.4	13.7	2						
GP-8	0.0	0.0	20.9	3	nm	nm	nm	nm	0.0	1.7	17.7	2	0.0	0.0	20.0	2	0.0	1.8	16.0	2	0.0	0.1	20.4	4	0.0	0.0	8.9	11.1	4	0.0	0.0	6.0	5.2	2						
MPE Exhaust	<0.1	0.0	20.8	3	nm	nm	nm	nm	nm																															
EX-1	nm				0.0	3.7	4.5	2	nm	0.0	6.4	2.7	2	0.0	0.0	5.9	8.5	2	0.0	10.6	0.4	2	0.0	5.8	7.0	2	0.0	0.0	2.8	17.5	2	0.0	0.0	3.8	13.8	2				
EX-2	nm				0.0	0.3	17.8	2	nm	0.0	2.7	11.6	2	0.0	0.1	20.2	2	0.0	9.9	0.1	2	0.0	6.2	4.6	2	0.0	0.0	9.7	3.1	2	0.0	0.0	7.2	6.2	2					
EX-3 ⁽⁷⁾	0.0	0.0	21.1	0	1.0	2.8	1.4	2	nm	7.2	4.2	0.0	2	2.2	3.9	5.2	2	4.9	9.5	0.0	2	6.7	8.6	0.1	2	1.1	3.9	0.1	2	0.0	0.1	19.3	2	0.0	0.1	19.5	2			
EX-4 ⁽⁷⁾	nm				4.5	0.3	11.5	2	nm	16.1	0.8	0.0	2	9.7	0.8	3.4	2	10.6	4.4	0.7	2	22.2	2.4	0.1	2	0.8	6.4	1.3	2	0.0	0.0	4.9	2.7	2						
EX-5	nm				29.8	0.3	6.6	2	nm	11.1	3.9	0.5	2	21.8	5.0	1.6	2	11.8	6.5	0.0	2	25.9	7.6	0.0	2	0.0	0.2	18.4	2	0.0	0.0	2.0	1.1	2						
EX-6	nm				2.3	2.5	0	0	nm	5.0	2.6	0.1	2	0.0	0.0	20.6	2	1.4	3.6	1.7	2	4.2	2.8	0.3	2	0.0	0.0	15.5	2	0.0	0.0	2.0	2.4	1.8						
EX-7	nm				0.0	0.4	19.2	2	nm	0.0	4.5	6.4	2	0.0	0.0	17.4	2	0.0	10.3	0.0	2	0.0	8.5	0.3	2	0.0	0.0	5.1	10.6	2	0.0	0.0	2.0	20.0	2					
EX-8 ⁽⁷⁾	nm				0.0	0.0	20.3	2	nm	0.0	2.2	10.5	2	0.0	0.2	1.7	14.2	2	0.6	7.7	0.0	2	1.2	8.5	0.0	2	0.3	0.0	10.7	0.0	2	0.0	0.0	20.1	2					
EX-9	nm				3.2	3.6	0	2	nm	9.1	4.4	0.1	2	5.1	3.6	7.3	2	9.6	5.2	0.0	2	13.1	5.6	0.0	2	1.3	9.3	0.0	2	1.4	5.5	0.0	2	1.0	5.2	0.0	2			
EX-10 ⁽⁷⁾	nm				1.9	1.1	5.9	2	nm	0.0	0.3	18.7	2	0.0	0.0	20.9	2	0.1	1.8	16.0	2	2.9	1.6	16.3	2	0.4	7.5	1.9	2	1.1	1.7	13.9	2	0.0	0.0	20.2	2			
EX-11	nm				18.7	0.0	13.8	2	nm	25.5	1.9	1.9	2	0.0	0																									

Table 4

Methane Monitoring
 Quarterly Progress Report #14 (July, August, and September 2016)
 Former Dearborn Refining Site
 Dearborn, Michigan

Location ID	2/26/2014				3/24/2014				5/5/2014				8/15/2014				9/19/2014				12/11/2014				3/9/2015				6/1/2015				6/10/2015			
	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)				
GP-1	nm	0.0	1.0	13.1	2	0.0	5.3	2.5	2	7.4	7.9	0.0	2	0.6	9.3	0.0	2	3.0	5.6	0.5	2	0.2	5.1	0.0	2	5.3	6.0	0.0	2	10.6	6.0	0.0	2			
GP-2	nm	0.0	1.9	10.5	2	0.0	6.5	4.5	2	0.0	6.9	10.7	2	0.0	2.5	16.1	2	0.0	4.5	15.0	2	0.0	6.2	2.2	2	0.0	5.9	5.3	2	0.0	5.9	5.3	2			
GP-3	nm	0.0	0.2	19.6	2	nm	nm	nm	nm	nm	nm	nm	nm	0.0	5.3	4.1	2	0.0	9.7	5.5	2	0.0	8.4	4.9	2	0.0	9.0	5.7	2	0.0	9.0	5.7	2			
GP-4	nm	0.0	5.4	2.1	2	0.0	8.8	1.4	2	0.0	8.5	3.0	2	0.0	6.4	6.7	2	0.0	4.7	4.0	2	0.0	8.5	0.2	2	0.0	7.7	0.2	2	0.0	8.0	1.8	2			
GP-5	nm	0.0	3.9	0.7	2	nm	nm	nm	nm	0.0	12.6	0.1	2	0.0	10.0	5.7	2	0.0	7.0	4.5	2	0.2	9.8	1.3	2	0.0	11.8	1.5	2	0.0	12.8	2.0	2			
GP-6	nm	0.0	3.0	15.2	2	0.0	3.6	6.2	2	0.0	2.6	12.0	2	0.0	4.6	2.0	2	0.1	1.7	12.7	2	0.0	4.3	5.6	0.5	0.0	4.5	9.5	30 seconds ⁽⁸⁾	0.0	4.5	9.5	30 seconds ⁽⁸⁾			
MPE Exhaust	nm	nm	nm	nm	nm	nm	nm																													
EX-1	0.0	7.4	1.4	2	0.0	6.2	0.7	2	0.0	8.7	0.0	2	2.4	10.1	0.0	2	nm	nm	nm	nm	nm	nm														
EX-2	0.0	8.3	0.0	2	0.5	7.1	0.0	2	1.1	6.4	0.2	2	9.2	5.1	0.0	2	nm	nm	nm	nm	nm	nm														
EX-3 ⁽⁷⁾	0.2	7.1	2.3	2	0.2	5.0	5.3	2	0.0	1.0	17.7	2	9.1	1.9	4.4	2	nm	nm	nm	nm	nm	nm														
EX-4 ⁽⁷⁾	0.0	4.0	4.0	2	0.0	3.4	3.9	2	0.4	2.5	6.9	2	12.9	3.5	2.4	2	nm	nm	nm	nm	nm	nm														
EX-5	0.0	0.2	19.7	2	0.0	3.1	5.0	2	0.0	1.6	14.1	2	15.2	1.2	12.2	2	nm	nm	nm	nm	nm	nm														
EX-6	1.7	1.6	0.0	2	2.6	1.4	0.0	2	2.6	1.6	0.0	2	7.0	2.0	0.0	2	nm	nm	nm	nm	nm	nm														
EX-7	0.0	7.9	0.0	2	0.1	7.0	0.0	2	0.3	6.7	0.0	2	3.4	6.2	0.4	2	nm	nm	nm	nm	nm	nm														
EX-8 ⁽⁷⁾	0.0	6.2	1.8	2	0.0	5.9	0.0	2	1.3	5.4	0.8	2	12.4	5.4	0.0	2	nm	nm	nm	nm	nm	nm														
EX-9	1.6	5.4	0.0	2	3.9	4.0	0.0	2	5.3	3.7	0.0	2	14.7	4.9	0.0	2	nm	nm	nm	nm	nm	nm														
EX-10 ⁽⁷⁾	0.0	0.9	17.6	2	1.7	6.7	0.0	2	1.0	4.0	5.0	2	11.9	6.2	1.9	2	nm	nm	nm	nm	nm	nm														
EX-11	0.4	7.8	0.0	2	0.2	1.0	16.0	2	0.0	0.9	17.8	2	0.0	0.0	20.7	2	nm	nm	nm	nm	nm	nm														
EX-12	0.0	1.8	16.4	2	0.0	2.8	4.4	2	0.0	3.2	11.5	2	0.0	0.0	20.8	2	nm	nm	nm	nm	nm	nm														
EX-13	0.0	7.2	2.1	2	0.0	7.0	1.1	2	0.2	6.7	0.2	2	2.2	5.8	0.0	2	nm	nm	nm	nm	nm	nm														
EX-14	0.0	5.5	0.0	2	0.7	4.5	0.0	2	1.3	3.8	0.0	2	9.7	3.3	0.0	2	nm	nm	nm	nm	nm	nm														
EX-15	0.0	2.2	13.2	2	0.4	4.3	0.3	2	1.9	3.5	0.0	2	7.2	2.4	0.7	2	nm	nm	nm	nm	nm	nm														
EX-16 ⁽⁷⁾	1.6	7.0	0.0	2	4.4	6.1	0.0	2	6.2	5.9	0.0	2	20.6	7.1	0.2	2	nm	nm	nm	nm	nm	nm														
EX-17	3.6	3.8	0.0	2	6.7	2.																														

Table 4

Methane Monitoring
 Quarterly Progress Report #14 (July, August, and September 2016)
 Former Dearborn Refining Site
 Dearborn, Michigan

Location ID	8/5/2015				8/7/2015				8/27/2015				9/25/2015				11/30/2015				1/8/2016				3/18/2016				5/26/2016				8/12/2016											
	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)												
GP-1	14.2	7.1	0.2	2	16.1	6.8	0.0	2	15.6	7.0	0.0	2	14.7	7.1	0.0	2	12.2	4.8	0.0	2	0.0	5.3	0.1	2	0.0	5.2	5.2	2	0.0	9.3	1.7	2	0.0	12.9	1.0	2								
GP-2	0.0	8.6	6.1	2	0.0	8.1	7.7	2	0.0	7.7	10.8	2	0.0	7.8	11.1	2	0.0	4.7	14.2	2	0.0	3.5	13.2	2	0.0	2.4	15.4	2	0.0	4.1	7.4	2	0.0	5.4	14.3	2								
GP-3	0.0	13.0	3.0	2	0.0	13.6	3.1	2	0.0	14.0	3.2	2	0.0	12.5	5.3	2	0.0	6.8	6.6	2	nm ^(b)				nm ^(b)				nm ^(b)				nm ^(b)				nm ^(b)							
GP-4	0.0	13.6	5.3	2	0.0	12.9	6.4	2	0.0	10.9	7.5	2	0.0	8.4	14.5	2	0.0	3.2	12.7	2	nm ^(b)				nm ^(b)				nm ^(b)				nm ^(b)											
GP-5	0.0	9.4	2.0	2	0.0	8.8	0.8	2	0.0	9.0	3.0	2	0.0	9.0	3.0	2	0.0	8.1	0.5	2	0.0	6.6	1.1	2	0.0	5.6	14.7	2	0.0	3.5	16.9	2												
GP-6	29.9	9.5	0.5	20 seconds ^(b)	32.3	9.1	0.0	2	33.3	9.1	0.0	2	32.8	8.7	0.0	2	20.0	7.1	0.0	2	30.3	5.6	2.4	30 seconds ^(b)	nm ^(b)				nm ^(b)				53.0				3.4				21.7			
GP-7	0.0	16.6	0.8	2	0.0	15.8	0.9	2	0.0	15.6	0.0	2	0.0	16.4	2.7	2	0.0	13.1	1.0	2	0.0	9.8	4.2	2	0.0	9.7	2.2	2	0.0	13.4	2.1	2												
GP-8	0.0	7.3	6.8	2	0.0	7.2	10.8	20 seconds ^(b)	0.0	5.0	3.9	30 seconds ^(b)	0.0	5.0	2.4	30 seconds ^(b)	0.1	4.3	2.3	2	0.0	4.3	2.0	2	0.0	4.2	13.9	20 seconds ^(b)	0.0	6.0	11.3	30 seconds ^(b)	0.0	3.3	6.7	2								
MPE Exhaust	nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾																											
EX-1	0.0	4.0	11.4	2	nm				nm				nm				nm				nm				nm				nm															
EX-2	4.7	6.4	1.6	2	nm				nm				nm				nm				nm				nm				nm															
EX-3 ⁽⁷⁾	4.1	6.5	5.4	2	nm				nm				nm				nm				nm				nm				nm															
EX-4 ⁽⁷⁾	7.0	5.9	4.0	2	nm				nm				nm				nm				nm				nm				nm															
EX-5	7.3	5.0	6.9	2	nm				nm				nm				nm				nm				nm				nm															
EX-6	12.8	5.7	0.0	2	nm				nm				nm				nm				nm				nm				nm															
EX-7	3.9	5.5	0.0	2	nm				nm				nm				nm				nm				nm				nm															
EX-8 ⁽⁷⁾	11.2	6.9	0.0	2	nm				nm				nm				nm				nm				nm				nm															
EX-9	10.3	6.4	3.9	2	nm				nm				nm				nm																											

Table 5

Annual Groundwater Analytical Results Summary (August 2016)
Quarterly Progress Report #14
(July, August and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location: Sample ID: Sample Date: Sample Type	MDEQ Generic Groundwater Cleanup Criteria: Nonresidential (1)					MW1-08 GW-48041-071913-CB-001	MW1-08 GW-48041-050614-CB-005	MW1-08 GW-48041-080715-CB-005	MW1-08 GW-48041-080715-CB-006	MW1-08 GW-48041-081116-DC-006	MW1-08 GW-48041-081116-DC-006	MW3R-08 GW-48041-071913-CB-005	MW3R-08 GW-48041-050614-CB-001	MW3R-08 GW-48041-080615-CB-003	MW3R-08 GW-48041-081116-DC-002
	Groundwater Surface Water Interface	Non-Residential Groundwater Volatileization to Indoor Air Inhalation	Water Solvability	Flammability and Explosivity	Screening Levels	7/19/2013	5/6/2014	8/7/2015	8/7/2015	Duplicate	8/11/2016	7/19/2013	5/6/2014	8/6/2015	8/11/2016
Units	a	b	c	d											
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	µg/L	89	1300000	1330000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,1,2-Tetrachloroethane	µg/L	78	77000	2970000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,1,2-Trichloroethane	µg/L	330	110000	4420000	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,1-Dichloroethane	µg/L	740	2300000	5060000	380000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,1-Dichloroethene	µg/L	130	1300	2250000	97000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,2,4-Trichlorobenzene	µg/L	99	300000	300000	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NA	1200	1230	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.7	15000	4200000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,2-Dichlorobenzene	µg/L	13	160000	156000	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,2-Dichloroethane	µg/L	360	59000	8520000	2500000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,2-Dichloropropane	µg/L	230	36000	2800000	550000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,3-Dichlorobenzene	µg/L	28	41000	111000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
1,4-Dichlorobenzene	µg/L	17	74000	73800	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.28 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2200	240000000	240000000	ID	ND(10)UJ	ND(10)	ND(50)	ND(50)	ND(10)	3.1 J	ND(10)	ND(10)	ND(50)	ND(10)
2-Hexanone	µg/L	ID	8700000	16000000	NA	ND(10)	ND(10)	ND(50)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ID	2000000	2000000	ID	ND(10)	ND(10)	ND(50)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)
Acetone	µg/L	1700	1000000000	1000000000	1500000	R	ND(10)U	ND(50)	ND(50)	ND(10)	32	ND(10)U	ND(10)	ND(50)	ND(10)
Benzene	µg/L	200	35000	175000	68000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	15	2.0 J
Bromodichloromethane	µg/L	ID	37000	6740000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Bromoform	µg/L	ID	3100000	3100000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Bromomethane (Methyl bromide)	µg/L	35	9000	14500000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Carbon disulfide	µg/L	ID	550000	1190000	13000	ND(5.0)	ND(5.0)U	ND(25)	ND(25)	ND(5.0)	0.32 J	ND(5.0)U	ND(25)	ND(5.0)	ND(1.0)
Carbon tetrachloride	µg/L	45	2400	793000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Chlorobenzene	µg/L	25	470000	472000	160000	0.19 J	0.18 J	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.6	ND(5.0)
Chloroethane	µg/L	1100	5700000	5740000	110000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.30 J	ND(5.0)
Chloroform (Trichloromethane)	µg/L	350	180000	7920000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Chloromethane (Methyl chloride)	µg/L	ID	45000	6340000	36000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
cis-1,2-Dichloroethene	µg/L	620	210000	3500000	530000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Cyclohexane	µg/L	NA	NA	NA	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	14	4.7
Dibromochloromethane	µg/L	ID	110000	2600000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	µg/L	ID	300000	300000	ID	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Ethylbenzene	µg/L	18	170000	169900	43000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Isopropyl benzene	µg/L	28	56000	56000	29000	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	7.9	1.8
Methyl acetate	µg/L	NA	NA	NA	NA	ND(10)	ND(10)	ND(50)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)
Methyl cyclohexane	µg/L	NA	NA	NA	NA	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	12	2.3
Methyl tert butyl ether (MTBE)	µg/L	7100	4700000	46800000	ID	0.18 J	0.18 J	ND(5.0)	ND(5.0)	0.23 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)
Methylene chloride															

Table 5

Annual Groundwater Analytical Results Summary (August 2016)
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Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	MW4-08	MW4-08	MW4-08	MW4-08	TW-1	TW-1	TW-1	TW-1	TW-2	TW-2	TW-2	TW-2
Sample ID:	GW-48041-071913-CB-002	GW-48041-050614-CB-006	GW-48041-080615-CB-001	GW-48041-081116-DC-001	GW-48041-071913-CB-006	GW-48041-050614-CB-004	GW-48041-080615-CB-002	GW-48041-081116-DC-005	GW-48041-071913-CB-003	GW-48041-071913-CB-004	GW-48041-050614-CB-002	GW-48041-050614-CB-003
Sample Date:	7/19/2013	5/6/2014	8/6/2015	8/11/2016	7/19/2013	5/6/2014	8/6/2015	8/11/2016	7/19/2013	7/19/2013	5/6/2014	5/6/2014
Sample Type	Duplicate											
Units												
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Tetrachloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene dibromide)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.24 J	ND(5.0)	0.66 J	0.45 J	0.45 J	1.2	1.4
1,2-Dichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.46 J	ND(5.0)	0.97 J	ND(1.0)	ND(1.0)	0.16 J	0.23 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	ND(10)	2.3 J	0.54 J	ND(10)	0.80 J	1.1 J	ND(50)	ND(10)	0.90 J	ND(10)	ND(10)
2-Hexanone	µg/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Acetone	µg/L	ND(10)	ND(10)U	ND(10)U	ND(10)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)U	ND(10)U
Benzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.9	3.1	8.1	5.9	2.4	4.2	5.5
Bromodichloromethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl bromide)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	µg/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)U	ND(5.0)U
Carbon tetrachloride	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.1	1.8	3.6 J	4.8	0.15 J	0.16 J	0.65 J
Chloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.60 J	ND(5.0)	0.51 J	0.29 J	0.29 J	0.50 J	0.71 J
Chloroform (Trichloromethane)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl chloride)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.7	2.7	ND(5.0)	2.8	0.79 J	0.87 J	ND(1.0)UJ
Dibromochloromethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.19 J	0.25 J
Isopropyl benzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.8	1.8	ND(5.0)	2.7	0.57 J	0.55 J	1.6
Methyl acetate	µg/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.3	2.5	ND(5.0)	1.9	0.31 J	0.32 J	1.1 J
Methyl tert butyl ether (MTBE)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.44 J	ND(5.0)	0.93 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methylene chloride	µg/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)U	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.58 J	0.36 J	ND(5.0)	0.69 J	ND(1.0)	ND(1.0)	0.24 J
trans-1,2-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)							

Table 5

Annual Groundwater Analytical Results Summary (August 2016)
Quarterly Progress Report #14
(July, August and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	TW-2	TW-2	TW-2
Sample ID:	GW-48041-080715-CB-004	GW-48041-081116-DC-003	GW-48041-081116-DC-004
Sample Date:	8/7/2015	8/11/2016	8/11/2016
Sample Type		Duplicate	
Units			
Volatile Organic Compounds (VOCs)			
1,1,1-Trichloroethane	µg/L	ND(5.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	µg/L	ND(5.0)	ND(1.0)
1,1,2-Trichloroethane	µg/L	ND(5.0)	ND(1.0)
1,1-Dichloroethane	µg/L	ND(5.0)	ND(1.0)
1,1-Dichloroethene	µg/L	ND(5.0)	ND(1.0)
1,2,4-Trichlorobenzene	µg/L	ND(5.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND(5.0)	ND(1.0)
1,2-Dibromoethane (Ethylene dibromide)	µg/L	ND(5.0)	ND(1.0)
1,2-Dichlorobenzene	µg/L	2.4 J	2.3
1,2-Dichloroethane	µg/L	ND(5.0)	ND(1.0)
1,2-Dichloropropane	µg/L	ND(5.0)	ND(1.0)
1,3-Dichlorobenzene	µg/L	ND(5.0)	0.25 J
1,4-Dichlorobenzene	µg/L	ND(5.0)	0.98 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	ND(50)	1.0 J
2-Hexanone	µg/L	ND(50)	1.5 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ND(50)	ND(10)
Acetone	µg/L	ND(50)	ND(10)
Benzene	µg/L	3.7 J	4.7
Bromodichloromethane	µg/L	ND(5.0)	ND(1.0)
Bromoform	µg/L	ND(5.0)	ND(1.0)
Bromomethane (Methyl bromide)	µg/L	ND(5.0)	ND(1.0)
Carbon disulfide	µg/L	ND(25)	0.65 J
Carbon tetrachloride	µg/L	ND(5.0)	0.56 J
Chlorobenzene	µg/L	ND(5.0)	ND(1.0)
Chloroethane	µg/L	ND(5.0)	0.99 J
Chloroform (Trichloromethane)	µg/L	ND(5.0)	0.70 J
Chlormethane (Methyl chloride)	µg/L	ND(5.0)	0.81 J
cis-1,2-Dichloroethene	µg/L	ND(5.0)	ND(1.0)
cis-1,3-Dichloropropene	µg/L	ND(5.0)	ND(1.0)
Cyclohexane	µg/L	5.8	ND(1.0)
Dibromochloromethane	µg/L	ND(5.0)	1.4
Dichlorodifluoromethane (CFC-12)	µg/L	ND(5.0)	ND(1.0)
Ethylbenzene	µg/L	ND(5.0)	ND(1.0)
Isopropyl benzene	µg/L	ND(5.0)	ND(1.0)
Methyl acetate	µg/L	ND(50)	ND(10)
Methyl cyclohexane	µg/L	ND(5.0)	ND(1.0)
Methyl tert butyl ether (MTBE)	µg/L	ND(5.0)	0.78 J
Methylene chloride	µg/L	ND(25)U	0.95 J
Styrene	µg/L	ND(5.0)	ND(1.0)
Tetrachloroethene	µg/L	ND(5.0)	ND(1.0)
Toluene	µg/L	ND(5.0)	ND(1.0)
trans-1,2-Dichloroethene	µg/L	ND(5.0)	ND(1.0)
trans-1,3-Dichloropropene	µg/L	ND(5.0)	ND(1.0)
Trichloroethene	µg/L	ND(5.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	µg/L	ND(5.0)	ND(1.0)
Trifluorotrichloroethane (CFC-113)	µg/L	ND(5.0)	ND(1.0)
Vinyl chloride	µg/L	ND(5.0)	ND(1.0)
Xylenes (total)	µg/L	ND(10)	ND(2.0)
			ND(2.0)

Notes:

(1)MDEQ (Michigan) Generic groundwater cleanup criteria, administrative rule R 299.44 effective December 30, 2013, pursuant to Part 201 of 1994 PA 451 as amended (Part 201 Groundwater Criteria)

MDEQ - Michigan Department of Environmental Quality

µg/L - micrograms per liter

NA - Not available.

ND () - Not detected at the associated reporting limit.

ND () U - The analyte was analyzed for, but was qualified as not detected at the associated reporting limit

ND () J - Not detected; associated reporting limit is estimated

J - Estimated concentration.

R - Rejected

ID - insufficient data to develop criterion.

Non-Residential Drinking Water Criteria do not apply to the Site because of the executed groundwater drinking water restriction.

Table 6

Sample Location: Sample ID: Sample Date: Sample Type	Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels (Samples collected less than or equal to 1.5 meters below ground surface or building foundation)	Soil Gas Analytical Results							
		Quarterly Progress Report #14 (July, August and September 2016)							
		Former Dearborn Refining Site Dearborn, Michigan							
		EX-11 GE-48041-081216-DC-006	EX-24 GE-48041-080615-CB-004	GP-1 GE-48041-050514-CB-001	GP-1 GE-48041-080615-CB-001	GP-1 GE-48041-081216-DC-001	GP-1 GE-48041-081216-DC-001	GP-3 GE-48041-050614-CB-004	GP-3 GE-48041-050614-CB-005
		8/12/2016	8/6/2015	5/5/2014	8/6/2015	8/12/2016	5/6/2014	5/6/2014	5/6/2014
Volatile Organic Compounds (VOCs)	Units								Duplicate
1,1,1-Trichloroethane	µg/m³	3500000	ND(110)	ND(40)	ND(8.2)	ND(40)	5.5 J	ND(8.2)	ND(8.2)
1,1,2,2-Tetrachloroethane	µg/m³	310	ND(190)	ND(67)	ND(14)	ND(66)	ND(14)	ND(14)	ND(14)
1,1,2-Trichloroethane	µg/m³	1100	ND(150)	ND(53)	ND(11)	ND(53)	ND(11)	ND(11)	ND(11)
1,1-Dichloroethane	µg/m³	290000	34 J	420 J	ND(6.1)	8.7 J	3.2 J	ND(6.1)	ND(6.1)
1,1-Dichloroethene	µg/m³	120000	ND(220)	ND(77)	ND(16)	ND(77)	ND(16)	ND(16)	ND(16)
1,2,4-Trichlorobenzene	µg/m³	2300	ND(1000)	ND(360)	ND(74)	ND(360)	ND(74)	ND(74)	ND(74)
1,2,4-Trimethylbenzene	µg/m³	130000	ND(270)	41 J	ND(20)	20 J	ND(20)	ND(20)	ND(20)
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	30	ND(420)	ND(150)	ND(31)	ND(150)	ND(31)	ND(31)	ND(31)
1,2-Dichlorobenzene	µg/m³	180000	ND(160)	ND(59)	ND(12)	ND(58)	ND(12)	ND(12)	ND(12)
1,2-Dichloroethane	µg/m³	700	ND(220)	ND(79)	ND(16)	40 J	ND(16)	ND(16)	ND(16)
1,2-Dichloropropane	µg/m³	2300	ND(130)	ND(45)	ND(9.2)	ND(45)	ND(9.2)	ND(9.2)	ND(9.2)
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³	NA	ND(190)	ND(68)	ND(14)	ND(68)	ND(14)	ND(14)	ND(14)
1,3,5-Trimethylbenzene	µg/m³	130000	ND(130)	22 J	ND(9.8)	ND(48)	ND(9.8)	ND(9.8)	ND(9.8)
1,3-Dichlorobenzene	µg/m³	1800	ND(160)	ND(59)	ND(12)	ND(58)	ND(12)	ND(12)	ND(12)
1,4-Dichlorobenzene	µg/m³	2600	ND(160)	35 J	ND(12)	ND(58)	ND(12)	ND(12)	ND(12)
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	2900000	6300	890 J	ND(12)	ND(57)	ND(12)	ND(12)	ND(12)
2-Hexanone	µg/m³	18000	ND(110)	ND(40)	ND(8.2)	ND(40)	ND(8.2)	ND(8.2)	ND(8.2)
4-Ethyl toluene	µg/m³	NA	ND(130)	67 J	ND(9.8)	ND(48)	ND(9.8)	ND(9.8)	ND(9.8)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	1800000	ND(110)	ND(40)	ND(8.2)	ND(40)	ND(8.2)	ND(8.2)	ND(8.2)
Acetone	µg/m³	3400000	1400	980 J	57	90 J	17 J	190	160
Benzene	µg/m³	2200	ND(88)	730 J	ND(6.4)	120	ND(6.4)	ND(6.4)	1.4 J
Benzyl chloride	µg/m³	370	ND(280)	ND(100)	ND(21)	ND(100)	ND(21)	ND(21)	ND(21)
Bromodichloromethane	µg/m³	1000	ND(140)	ND(49)	ND(10)	ND(49)	ND(10)	ND(10)	ND(10)
Bromoform	µg/m³	17000	ND(280)	ND(100)	ND(21)	ND(100)	ND(21)	ND(21)	ND(21)
Bromomethane (Methyl bromide)	µg/m³	2900	ND(210)	ND(76)	ND(16)	ND(75)	ND(16)	ND(16)	ND(16)
Carbon disulfide	µg/m³	410000	42 J	ND(61)	ND(12)	ND(60)	ND(12)	4.5 J	ND(12)
Carbon tetrachloride	µg/m³	3000	ND(340)	ND(120)	ND(25)	ND(120)	ND(25)	ND(25)	ND(25)
Chlorobenzene	µg/m³	41000	ND(95)	ND(34)	ND(6.9)	ND(33)	ND(6.9)	ND(6.9)	ND(6.9)
Chloroethane	µg/m³	5800000	ND(140)	270 J	ND(11)	ND(51)	ND(11)	ND(11)	ND(11)
Chloroform (Trichloromethane)	µg/m³	7600	ND(100)	ND(36)	ND(7.3)	ND(35)	4.6 J	ND(7.3)	ND(7.3)
Chloromethane (Methyl chloride)	µg/m³	29000	ND(110)	ND(40)	ND(8.3)	ND(40)	ND(8.3)	2.7 J	2.2 J
cis-1,2-Dichloroethene	µg/m³	4100	ND(110)	31 J	ND(7.9)	ND(38)	ND(7.9)	ND(7.9)	ND(7.9)
cis-1,3-Dichloropropene	µg/m³	NA	ND(120)	ND(44)	ND(9.1)	ND(44)	ND(9.1)	ND(9.1)	ND(9.1)
Dibromochloromethane	µg/m³	740	ND(230)	ND(83)	ND(17)	ND(82)	ND(17)	ND(17)	ND(17)
Dichlorodifluoromethane (CFC-12)	µg/m³	29000000	ND(140)	ND(48)	5.8 J	ND(48)	ND(9.9)	ND(9.9)	3.7 J
Ethylbenzene	µg/m³	59000	ND(120)	170 J	ND(8.7)	ND(42)	ND(8.7)	ND(8.7)	ND(8.7)
Hexachlorobutadiene	µg/m³	830	ND(1500)	ND(520)	ND(110)	ND(520)	ND(110)	ND(110)	ND(110)
m&p-Xylenes	µg/m³	NA	ND(240)	220 J	ND(17)	ND(84)U	5.1 J	3.1 J	4.6 J
Methylene chloride	µg/m³	39000	ND(95)	ND(34)	ND(6.9)	ND(34)	ND(6.9)	2.9 J	3.9 J
o-Xylene	µg/m³	NA	ND(120)	160 J	ND(8.7)	ND(42)U	ND(8.7)	ND(8.7)	ND(8.7)
Tetrachloroethene	µg/m³	23000	ND(190)	ND(66)	4.8 J	31 J	31	ND(14)	ND(14)
Toluene	µg/m³	2900000	ND(100)	ND(37)	2.0 J	9.6 J	2.9 J	130 J	310 J
trans-1,2-Dichloroethene	µg/m³	41000	ND(110)	12 J	ND(7.9)	ND(38)	ND(7.9)	ND(7.9)	ND(7.9)
trans-1,3-Dichloropropene	µg/m³	NA	ND(120)	ND(44)	ND(9.1)	ND(44)	ND(9.1)	ND(9.1)	ND(9.1)
Trichloroethene	µg/m³	1200	ND(150)	ND(52)	2.9 J	20 J	22	ND(11)	ND(11)
Trichlorofluoromethane (CFC-11)	µg/m³	33000000	ND(150)	ND(55)	ND(11)	ND(54)	16	ND(11)	ND(11)
Trifluorotrichloroethane (CFC-113)	µg/m³	11000000	ND(210)	ND(75)	ND(15)	ND(74)	ND(15)	ND(15)	ND(15)
Vinyl acetate	µg/m³	120000	ND(190)	ND(69)	ND(14)	ND(68)	ND(14)	ND(14)	ND(14)
Vinyl chloride	µg/m³	4100	ND(70)	89 J	ND(5.1)	ND(25)	ND(5.1)	ND(5.1)	ND(5.1)

Footnotes:

ND Not detected at the associated reporting limit.

U Not detected at the associated reporting limit.

J Estimated concentration.

Table 6

Sample Location:	Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels (Samples collected less than or equal to 1.5 meters below ground surface or building foundation)	Soil Gas Analytical Results						
		GP-3 GE-48041-080615-CB-002 8/6/2015	GP-3 GE-48041-081216-DC-002 8/12/2016	GP-5 GE-48041-050614-CB-003 5/6/2014	GP-5 GE-48041-080615-CB-003 8/6/2015	GP-5 GE-48041-081216-DC-003 8/12/2016	GP-5 GE-48041-081216-DC-004 8/12/2016	GP-7 GE-48041-050514-CB-002 5/5/2014
Sample Date:								
Sample Type								
Volatile Organic Compounds (VOCs)	Units							
1,1,1-Trichloroethane	µg/m³	3500000	ND(41)	ND(35)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)
1,1,2,2-Tetrachloroethane	µg/m³	310	ND(69)	ND(59)	ND(14)	ND(14)	ND(14)	ND(14)
1,1,2-Trichloroethane	µg/m³	1100	ND(55)	ND(47)	ND(11)	ND(11)	ND(11)	ND(11)
1,1-Dichloroethane	µg/m³	290000	ND(30)	ND(26)	ND(6.1)	2.0 J	3.0 J	3.1 J
1,1-Dichloroethene	µg/m³	120000	ND(79)	ND(69)	ND(16)	ND(16)	ND(16)	ND(16)
1,2,4-Trichlorobenzene	µg/m³	2300	ND(370)	ND(320)	ND(74)	ND(74)	ND(74)	ND(74)
1,2,4-Trimethylbenzene	µg/m³	130000	29 J	ND(85)	ND(20)	24	ND(20)	ND(20)
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	30	ND(150)	ND(130)	ND(31)	ND(31)	ND(31)	ND(31)
1,2-Dichlorobenzene	µg/m³	180000	ND(60)	ND(52)	ND(12)	ND(12)	ND(12)	ND(12)
1,2-Dichloroethane	µg/m³	700	ND(81)	ND(70)	ND(16)	ND(16)	ND(16)	ND(16)
1,2-Dichloropropane	µg/m³	2300	ND(46)	ND(40)	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³	NA	ND(70)	ND(60)	ND(14)	ND(14)	ND(14)	ND(14)
1,3,5-Trimethylbenzene	µg/m³	130000	ND(49)	ND(42)	ND(9.8)	ND(9.8)U	ND(9.8)	ND(9.8)
1,3-Dichlorobenzene	µg/m³	1800	ND(60)	ND(52)	ND(12)	ND(12)	ND(12)	ND(12)
1,4-Dichlorobenzene	µg/m³	2600	29 J	ND(52)	ND(12)	28	ND(12)	ND(12)
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	2900000	23 J	69	10 J	3.2 J	ND(12)	ND(12)
2-Hexanone	µg/m³	18000	ND(41)	ND(35)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)
4-Ethyl toluene	µg/m³	NA	ND(49)	ND(42)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	1800000	150	35	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)
Acetone	µg/m³	3400000	1000	1000	150	200	8.5 J	11 J
Benzene	µg/m³	2200	ND(32)	ND(28)	ND(6.4)	ND(6.4)	ND(6.4)	ND(6.4)
Benzyl chloride	µg/m³	370	ND(100)	ND(89)	ND(21)	ND(21)	ND(21)	ND(21)
Bromodichloromethane	µg/m³	1000	ND(50)	ND(43)	ND(10)	ND(10)	ND(10)	ND(10)
Bromoform	µg/m³	17000	ND(100)	ND(89)	ND(21)	ND(21)	ND(21)	ND(21)
Bromomethane (Methyl bromide)	µg/m³	2900	ND(78)	ND(67)	ND(16)	ND(16)	ND(16)	ND(16)
Carbon disulfide	µg/m³	410000	ND(62)	ND(54)	ND(12)	ND(12)	ND(12)	ND(12)
Carbon tetrachloride	µg/m³	3000	ND(130)	ND(110)	ND(25)	ND(25)	ND(25)	ND(25)
Chlorobenzene	µg/m³	41000	ND(35)	ND(30)	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)
Chloroethane	µg/m³	5800000	ND(53)	ND(46)	ND(11)	ND(11)	ND(11)	ND(11)
Chloroform (Trichloromethane)	µg/m³	7600	ND(37)	ND(32)	ND(7.3)	ND(7.3)	ND(7.3)	ND(7.3)
Chloromethane (Methyl chloride)	µg/m³	29000	ND(41)	ND(36)	ND(8.3)	ND(8.3)	ND(8.3)	ND(8.3)
cis-1,2-Dichloroethene	µg/m³	4100	ND(40)	ND(34)	ND(7.9)	2.6 J	4.8 J	5.0 J
cis-1,3-Dichloropropene	µg/m³	NA	ND(45)	ND(39)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)
Dibromochloromethane	µg/m³	740	ND(85)	ND(74)	ND(17)	ND(17)	ND(17)	ND(17)
Dichlorodifluoromethane (CFC-12)	µg/m³	29000000	ND(49)	ND(43)	10	8.0 J	11	3.9 J
Ethylbenzene	µg/m³	59000	ND(43)	ND(38)	ND(8.7)	4.1 J	ND(8.7)	ND(8.7)
Hexachlorobutadiene	µg/m³	830	ND(530)	ND(460)	ND(110)	ND(110)	ND(110)	ND(110)
m&p-Xylenes	µg/m³	NA	ND(87)U	ND(75)	4.2 J	23	2.8 J	2.8 J
Methylene chloride	µg/m³	39000	ND(35)	ND(30)	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)
o-Xylene	µg/m³	NA	ND(43)U	ND(38)	ND(8.7)	ND(9.7)U	ND(8.7)	ND(8.7)
Tetrachloroethene	µg/m³	23000	64 J	69	5.1 J	9.3 J	17	18
Toluene	µg/m³	2900000	ND(38)	ND(33)	8.5	3.0 J	ND(7.5)	ND(7.5)
trans-1,2-Dichloroethene	µg/m³	41000	ND(40)	ND(34)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)
trans-1,3-Dichloropropene	µg/m³	NA	ND(45)	ND(39)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)
Trichloroethene	µg/m³	1200	19 J	26 J	29	54	77	80
Trichlorofluoromethane (CFC-11)	µg/m³	33000000	ND(56)	ND(49)	ND(11)	ND(11)	ND(11)	ND(11)
Trifluorotrichloroethane (CFC-113)	µg/m³	11000000	ND(77)	ND(66)	ND(15)	ND(15)	ND(15)	ND(15)
Vinyl acetate	µg/m³	120000	ND(70)	ND(61)	ND(14)	ND(14)	ND(14)	ND(14)
Vinyl chloride	µg/m³	4100	ND(26)	ND(22)	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)

Footnotes:

ND Not detected at the associated reporting limit.

U Not detected at the associated reporting limit.

J Estimated concentration.

Table 6

Sample Location: Sample ID: Sample Date: Sample Type	Units	Soil Gas Analytical Results			
		Quarterly Progress Report #14 (July, August and September 2016)			
		Former Dearborn Refining Site			
		Dearborn, Michigan			
Volatile Organic Compounds (VOCs)	Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels (Samples collected less than or equal to 1.5 meters below ground surface or building foundation)	GP-7 8/6/2015	GP-7 8/6/2015	GP-7 8/12/2016	GP-7 Duplicate
1,1,1-Trichloroethane	µg/m³	3500000	ND(8.2)	ND(8.2)	ND(8.2)
1,1,2,2-Tetrachloroethane	µg/m³	310	ND(14)	ND(14)	ND(14)
1,1,2-Trichloroethane	µg/m³	1100	ND(11)	ND(11)	ND(11)
1,1-Dichloroethane	µg/m³	290000	4.3 J	4.3 J	3.0 J
1,1-Dichloroethene	µg/m³	120000	ND(16)	ND(16)	ND(16)
1,2,4-Trichlorobenzene	µg/m³	2300	ND(74)	ND(74)	ND(74)
1,2,4-Trimethylbenzene	µg/m³	130000	5.6 J	4.9 J	ND(20)
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	30	ND(31)	ND(31)	ND(31)
1,2-Dichlorobenzene	µg/m³	180000	ND(12)	ND(12)	ND(12)
1,2-Dichloroethane	µg/m³	700	ND(16)	ND(16)	ND(16)
1,2-Dichloropropane	µg/m³	2300	ND(9.2)	ND(9.2)	ND(9.2)
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³	NA	ND(14)	ND(14)	ND(14)
1,3,5-Trimethylbenzene	µg/m³	130000	ND(9.8)	ND(9.8)	ND(9.8)
1,3-Dichlorobenzene	µg/m³	1800	3.6 J	3.5 J	ND(12)
1,4-Dichlorobenzene	µg/m³	2600	5.4 J	6.0 J	ND(12)
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	2900000	4.0 J	3.8 J	ND(12)
2-Hexanone	µg/m³	18000	ND(8.2)	ND(8.2)	ND(8.2)
4-Ethyl toluene	µg/m³	NA	ND(9.8)	ND(9.8)	ND(9.8)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	1800000	ND(8.2)	ND(8.2)	ND(8.2)
Acetone	µg/m³	3400000	190	190	18 J
Benzene	µg/m³	2200	1.6 J	1.6 J	ND(6.4)
Benzyl chloride	µg/m³	370	ND(21)	ND(21)	ND(21)
Bromodichloromethane	µg/m³	1000	ND(10)	ND(10)	ND(10)
Bromoform	µg/m³	17000	ND(21)	ND(21)	ND(21)
Bromomethane (Methyl bromide)	µg/m³	2900	ND(16)	ND(16)	ND(16)
Carbon disulfide	µg/m³	410000	ND(12)	ND(12)	ND(12)
Carbon tetrachloride	µg/m³	3000	ND(25)	ND(25)	ND(25)
Chlorobenzene	µg/m³	41000	ND(6.9)	ND(6.9)	ND(6.9)
Chloroethane	µg/m³	5800000	ND(11)	ND(11)	ND(11)
Chloroform (Trichloromethane)	µg/m³	7600	ND(7.3)	ND(7.3)	ND(7.3)
Chloromethane (Methyl chloride)	µg/m³	29000	ND(8.3)	2.4 J	ND(8.3)
cis-1,2-Dichloroethene	µg/m³	4100	ND(7.9)	ND(7.9)	ND(7.9)
cis-1,3-Dichloropropene	µg/m³	NA	ND(9.1)	ND(9.1)	ND(9.1)
Dibromochloromethane	µg/m³	740	ND(17)	ND(17)	ND(17)
Dichlorodifluoromethane (CFC-12)	µg/m³	29000000	ND(9.9)	ND(9.9)	ND(9.9)
Ethylbenzene	µg/m³	59000	2.4 J	ND(8.7)	ND(8.7)
Hexachlorobutadiene	µg/m³	830	ND(110)	ND(110)	ND(110)
m&p-Xylenes	µg/m³	NA	10 J	9.6 J	6.1 J
Methylene chloride	µg/m³	39000	ND(6.9)	ND(6.9)	ND(6.9)
o-Xylene	µg/m³	NA	4.0 J	3.9 J	2.4 J
Tetrachloroethene	µg/m³	23000	4.7 J	4.8 J	5.9 J
Toluene	µg/m³	2900000	3.6 J	3.4 J	3.2 J
trans-1,2-Dichloroethene	µg/m³	41000	ND(7.9)	ND(7.9)	ND(7.9)
trans-1,3-Dichloropropene	µg/m³	NA	ND(9.1)	ND(9.1)	ND(9.1)
Trichloroethene	µg/m³	1200	3.2 J	3.2 J	3.8 J
Trichlorofluoromethane (CFC-11)	µg/m³	33000000	ND(11)	ND(11)	ND(11)
Trifluorotrichloroethane (CFC-113)	µg/m³	11000000	ND(15)	ND(15)	ND(15)
Vinyl acetate	µg/m³	120000	ND(14)	ND(14)	ND(14)
Vinyl chloride	µg/m³	4100	ND(5.1)	ND(5.1)	ND(5.1)

Footnotes:

ND Not detected at the associated reporting limit.

U Not detected at the associated reporting limit.

J Estimated concentration.

Table 7

Soil Gas Analytical Results
Quarterly Progress Report #14 (July, August and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	Vapor Intrusion Shallow Soil	EX-11	EX-24	GP-1	GP-1	GP-1	GP-3	GP-3	GP-3	GP-3	GP-3
Sample ID:	Gas (sub-slab) Screening	GE-48041-081216-DC-006	GE-48041-080615-CB-004	GE-48041-050514-CB-001	GE-48041-080615-CB-001	GE-48041-081216-DC-001	GE-48041-050614-CB-004	GE-48041-050614-CB-005	GE-48041-080615-CB-002	GE-48041-081216-DC-002	
Sample Date:	Levels (Samples collected less than or equal to 1.5 meters below ground surface or building foundation)	8/12/2016	8/6/2015	5/5/2014	8/6/2015	8/12/2016	5/6/2014	5/6/2014	8/6/2015	8/12/2016	
Sample Type	Units							Duplicate			
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	ppbv	610000	ND(21)	ND(7.3)	ND(1.5)	ND(7.3)	1.0 J	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)
1,1,2,2-Tetrachloroethane	ppbv	43	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
1,1,2-Trichloroethane	ppbv	200	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
1,1-Dichloroethane	ppbv	69000	8.3 J	100 J	ND(1.5)	2.1 J	0.80 J	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)
1,1-Dichloroethene	ppbv	28000	ND(55)	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
1,2,4-Trichlorobenzene	ppbv	300	ND(140)	ND(49)	ND(10)	ND(48)	ND(10)	ND(10)	ND(10)	ND(50)	ND(43)
1,2,4-Trimethylbenzene	ppbv	25000	ND(55)	8.3 J	ND(4.0)	4.1 J	ND(4.0)	ND(4.0)	ND(4.0)	5.8 J	ND(17)
1,2-Dibromoethane (Ethylene dibromide)	ppbv	3.8	ND(55)	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
1,2-Dichlorobenzene	ppbv	28000	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
1,2-Dichloroethane	ppbv	160	ND(55)	ND(20)	ND(4.0)	9.8 J	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
1,2-Dichloropropane	ppbv	480	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
1,2-Dichlortetrafluoroethane (CFC 114)	ppbv	NA	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
1,3,5-Trimethylbenzene	ppbv	25000	ND(27)	4.4 J	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
1,3-Dichlorobenzene	ppbv	280	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
1,4-Dichlorobenzene	ppbv	420	ND(27)	5.8 J	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	2.4	4.8 J	ND(8.6)
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	940000	2100	300 J	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	7.7 J	23
2-Hexanone	ppbv	4100	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
4-Ethyl toluene	ppbv	NA	ND(27)	14 J	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	410000	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	36	8.6
Acetone	ppbv	1400000	580	410 J	24	38 J	7.1 J	79	67	430	440
Benzene	ppbv	650	ND(27)	230 J	ND(2.0)	39	ND(2.0)	ND(2.0)	0.45 J	ND(10)	ND(8.6)
Benzyl chloride	ppbv	68	ND(55)	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
Bromodichloromethane	ppbv	140	ND(21)	ND(7.3)	ND(1.5)	ND(7.3)	ND(1.5)	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)
Bromoform	ppbv	1500	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
Bromomethane (Methyl bromide)	ppbv	710	ND(55)	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
Carbon disulfide	ppbv	120000	13 J	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
Carbon tetrachloride	ppbv	460	ND(55)	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
Chlorobenzene	ppbv	8400	ND(21)	ND(7.3)	ND(1.5)	ND(7.3)	ND(1.5)	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)
Chloroethane	ppbv	2100000	ND(55)	100 J	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
Chloroform (Trichloromethane)	ppbv	1500	ND(21)	ND(7.3)	ND(1.5)	ND(7.3)	ND(1.5)	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)
Chloromethane (Methyl chloride)	ppbv	13000	ND(55)	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	1.3 J	1.1 J	ND(20)
cis-1,2-Dichloroethene	ppbv	980	ND(27)	7.9 J	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
cis-1,3-Dichloropropene	ppbv	NA	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
Dibromochloromethane	ppbv	83	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
Dichlorodifluoromethane (CFC-12)	ppbv	5600000	ND(27)	ND(9.8)	1.2 J	ND(9.7)	ND(2.0)	ND(2.0)	0.75 J	ND(10)	ND(8.6)
Ethylbenzene	ppbv	13000	ND(27)	39 J	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
Hexachlorobutadiene	ppbv	74	ND(140)	ND(49)	ND(10)	ND(48)	ND(10)	ND(10)	ND(10)	ND(50)	ND(43)
m&p-Xylenes	ppbv	NA	ND(55)	51 J	ND(4.0)	ND(19)U	1.2 J	0.72 J	1.1 J	ND(20)U	ND(17)
Methylene chloride	ppbv	18000	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	0.84 J	1.1 J	ND(10)	ND(8.6)
o-Xylene	ppbv	NA	ND(27)	37 J	ND(2.0)	ND(9.7)U	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)U	ND(8.6)
Tetrachloroethene	ppbv	3300	ND(27)	ND(9.8)	0.72 J	4.5 J	4.6	ND(2.0)	ND(2.0)	9.5 J	10
Toluene	ppbv	740000	ND(27)	ND(9.8)	0.53 J	2.5 J	0.76 J	35 J	82 J	ND(10)	ND(8.6)
trans-1,2-Dichloroethene	ppbv	9800	ND(27)	2.9 J	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
trans-1,3-Dichloropropene	ppbv	NA	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
Trichloroethene	ppbv	210	ND(27)	ND(9.8)	0.53 J	3.6 J	4.2	ND(2.0)	ND(2.0)	3.6 J	4.8 J
Trichlorofluoromethane (CFC-11)	ppbv	5600000	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	2.9	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
Trifluorotrichloroethane (CFC-113)	ppbv	1400000	ND(27)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)
Vinyl acetate	ppbv	32000	ND(55)	ND(20)	ND(4.0)	ND(19)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)
Vinyl chloride	ppbv	1500	ND(27)	35 J	ND(2.0)	ND(9.7)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)

Footnotes:

- ND Not detected at the associated reporting limit.
 U Not detected at the associated reporting limit.
 J Estimated concentration.

Table 7

Soil Gas Analytical Results
Quarterly Progress Report #14 (July, August and September 2016)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	Vapor Intrusion Shallow Soil	GP-5	GP-5	GP-5	GP-5	GP-7	GP-7	GP-7	GP-7	GP-7
Sample ID:	Gas (sub-slab) Screening	GE-48041-050614-CB-003	GE-48041-080615-CB-003	GE-48041-081216-DC-003	GE-48041-081216-DC-004	GE-48041-050514-CB-002	GE-48041-080615-CB-005	GE-48041-080615-CB-006	GE-48041-081216-DC-005	
Sample Date:	Levels (Samples collected	5/6/2014	8/6/2015	8/12/2016	8/12/2016	5/5/2014	8/6/2015	8/6/2015	8/6/2015	
Sample Type	Units	less than or equal to 1.5 meters below ground surface or building foundation)			Duplicate					
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	ppbv	610000	ND(1.5)	ND(1.5)						
1,1,2,2-Tetrachloroethane	ppbv	43	ND(2.0)	ND(2.0)						
1,1,2-Trichloroethane	ppbv	200	ND(2.0)	ND(2.0)						
1,1-Dichloroethane	ppbv	69000	ND(1.5)	0.49 J	0.74 J	0.76 J	ND(1.5)	1.1 J	1.1 J	0.74 J
1,1-Dichloroethene	ppbv	28000	ND(4.0)	ND(4.0)						
1,2,4-Trichlorobenzene	ppbv	300	ND(10)	ND(10)						
1,2,4-Trimethylbenzene	ppbv	25000	ND(4.0)	4.8	ND(4.0)	ND(4.0)	ND(4.0)	1.1 J	1.0 J	ND(4.0)
1,2-Dibromoethane (Ethylene dibromide)	ppbv	3.8	ND(4.0)	ND(4.0)						
1,2-Dichlorobenzene	ppbv	28000	ND(2.0)	ND(2.0)						
1,2-Dichloroethane	ppbv	160	ND(4.0)	ND(4.0)						
1,2-Dichloropropane	ppbv	480	ND(2.0)	ND(2.0)						
1,2-Dichlortetrafluoroethane (CFC 114)	ppbv	NA	ND(2.0)	ND(2.0)						
1,3,5-Trimethylbenzene	ppbv	25000	ND(2.0)	ND(2.0)U	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,3-Dichlorobenzene	ppbv	280	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.60 J	0.59 J
1,4-Dichlorobenzene	ppbv	420	ND(2.0)	4.6	ND(2.0)	ND(2.0)	ND(2.0)	0.89 J	1.0 J	ND(2.0)
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	940000	3.5 J	1.1 J	ND(4.0)	ND(4.0)	ND(4.0)	1.4 J	1.3 J	ND(4.0)
2-Hexanone	ppbv	4100	ND(2.0)	ND(2.0)						
4-Ethyl toluene	ppbv	NA	ND(2.0)	ND(2.0)						
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	410000	ND(2.0)	ND(2.0)						
Acetone	ppbv	1400000	63	83	3.6 J	4.5 J	13	79	80	7.8 J
Benzene	ppbv	650	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.50 J	0.49 J	ND(2.0)
Benzyl chloride	ppbv	68	ND(4.0)	ND(4.0)						
Bromodichloromethane	ppbv	140	ND(1.5)	ND(1.5)						
Bromoform	ppbv	1500	ND(2.0)	ND(2.0)						
Bromomethane (Methyl bromide)	ppbv	710	ND(4.0)	ND(4.0)						
Carbon disulfide	ppbv	120000	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	0.42 J	ND(4.0)	ND(4.0)
Carbon tetrachloride	ppbv	460	ND(4.0)	ND(4.0)						
Chlorobenzene	ppbv	8400	ND(1.5)	ND(1.5)						
Chloroethane	ppbv	2100000	ND(4.0)	ND(4.0)						
Chloroform (Trichloromethane)	ppbv	1500	ND(1.5)	ND(1.5)						
Chloromethane (Methyl chloride)	ppbv	13000	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	1.1 J	ND(4.0)
cis-1,2-Dichloroethene	ppbv	980	ND(2.0)	0.66 J	1.2 J	1.3 J	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
cis-1,3-Dichloropropene	ppbv	NA	ND(2.0)	ND(2.0)						
Dibromochloromethane	ppbv	83	ND(2.0)	ND(2.0)						
Dichlorodifluoromethane (CFC-12)	ppbv	5600000	2.0	1.6 J	2.2	2.2	0.79 J	ND(2.0)	ND(2.0)	ND(2.0)
Ethylbenzene	ppbv	13000	ND(2.0)	0.94 J	ND(2.0)	ND(2.0)	ND(2.0)	0.55 J	ND(2.0)	ND(2.0)
Hexachlorobutadiene	ppbv	74	ND(10)	ND(10)						
m&p-Xylenes	ppbv	NA	0.97 J	5.4	0.63 J	0.66 J	0.66 J	2.3 J	2.2 J	1.4 J
Methylene chloride	ppbv	18000	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.56 J	ND(2.0)	ND(2.0)	ND(2.0)
o-Xylene	ppbv	NA	ND(2.0)	ND(2.0)U	ND(2.0)	ND(2.0)	ND(2.0)	0.92 J	0.90 J	0.54 J
Tetrachloroethene	ppbv	3300	0.75 J	1.4 J	2.5	2.6	ND(2.0)	0.70 J	0.71 J	0.87 J
Toluene	ppbv	740000	2.3	0.78 J	ND(2.0)	ND(2.0)	2.4	0.96 J	0.91 J	0.86 J
trans-1,2-Dichloroethene	ppbv	9800	ND(2.0)	ND(2.0)						
trans-1,3-Dichloropropene	ppbv	NA	ND(2.0)	ND(2.0)						
Trichloroethene	ppbv	210	5.4	10	14	15	ND(2.0)	0.60 J	0.59 J	0.71 J
Trichlorofluoromethane (CFC-11)	ppbv	5600000	ND(2.0)	ND(2.0)						
Trifluorotrichloroethane (CFC-113)	ppbv	1400000	ND(2.0)	ND(2.0)						
Vinyl acetate	ppbv	32000	ND(4.0)	ND(4.0)						
Vinyl chloride	ppbv	1500	ND(2.0)	ND(2.0)						

Footnotes:

- ND Not detected at the associated reporting limit.
 U Not detected at the associated reporting limit.
 J Estimated concentration.

Attachment A.1 Inspection Logs

COVER SYSTEM INSPECTION LOG

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan **LOCATION:** Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

PROJECT NUMBER: 48041

DATE:

10 | 8 | 18 | 16
(MM DD YY)

INSPECTOR(S): Alan P Loebach, P.E., City of Dearborn

Item	Inspect For	Action Required	Comments
1 	Cover System ⁽¹⁾		
	Surface Conditions	- exposed geotextile fabric - erosion and/or sloughing - ponding of water - established vegetative ground cover - subsidence or settlement	No issues No issues No issues No issues No issues
2 	Stormwater Retention Area and Associated Swale, Grass-lined Ditch, and Berms ⁽¹⁾		
	Stormwater Management	- sediment accumulation (56 inches in Retention Area) - debris construction - visible signs of erosion - established vegetation - signs of seepage through berms - accumulation of trash	No issues No issues No issues No issues No issues No issues
3 	Other Site Systems ⁽¹⁾		
	Site Fencing	- integrity of fence - integrity of gates - integrity of locks - placement and condition of signs	City to repair a.s.a.p. Barbed wire damage-no breach No issues No issues No issues

Notes:



= OK



= Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.
Photographs attached.

TREATED WATER CONVEYANCE PIPE (UNDER GRAVEL DRIVEWAY) INSPECTION LOG

PROJECT NAME:	Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan	LOCATION:	Dearborn, Michigan	
PROPERTY OWNER:	City of Dearborn			
PROJECT NUMBER:	48041	DATE:	<u>0 8 1 8 1 6</u> (MM DD YY)	
INSPECTOR(S):	<u>Al Loebach, P.E., City of Dearborn</u>			
Item	Inspect For	Action Required	Comments	
1 	Pipe⁽¹⁾ Condition/ Functionality	- integrity - sediment accumulation - other blockage	<u>City will correct a.s.a.p</u> <hr/> <hr/> <hr/>	Erosion due to recent storm No issues No issues

Notes:

<input type="checkbox"/> ✓	= OK
<input type="checkbox"/> X	= Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.
Photographs attached.

WELL INSPECTION SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS:

Corrie Bondy

SUPERVISOR:

C. Bondy

DATE OF INSPECTION: 10/8/12/16 To
(MM DD YY)

Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Sediment	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
MW1-08	n/a	✓	n/a	✓	yes	9.32'	25.62'	
MW2-08	n/a	✓	n/a	✓	no	9.04'	10.13'	
MW3R-08	n/a	✓	n/a	✓	no	7.19'	17.94'	
MW4-08	n/a	✓	n/a	✓	yes	9.51'	19.36'	
MW5-08	n/a	✓	n/a	✓	yes	4.65'	9.21'	
MW6-10	n/a	✓	n/a	✓	—	13.00'	—	DTP: 10.24'
MW7-10	n/a	✓	n/a	✓	—	11.06'	—	DTP: 9.82'
MW8-10	n/a	✓	n/a	✓	yes	9.99'	23.25'	

Additional Comments:

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS:

Corrie Bondy

SUPERVISOR:

P. Bondy

DATE OF INSPECTION: 10/8/12 To 11/6
(MM DD YY)

Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Sediment	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
MW9-10	n/a	✓	n/a	✓	yes	9.81'	18.57'	
MW10-10	n/a	✓	n/a	✓	—	8.41'	—	DTP: 7.58'
MW11-11	n/a	✓	n/a	✓	no	3.11'	14.30'	
MW12-11	—	—	—	—	—	—	—	
MW13-11	n/a	✓	n/a	✓	yes	5.92'	17.85'	
MW14-11	n/a	✓	n/a	✓	yes	5.88'	16.33'	one post knocked over
MW15-11	n/a	✓	n/a	✓	yes	5.10'	17.03'	one post knocked over
MW16-11	n/a	✓	n/a	✓	no	4.44'	14.28	

Additional Comments:

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS:

Corrie Bondy

SUPERVISOR:

C. Bondy

DATE OF INSPECTION: 08/12/16 To
(MM DD YY)

Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Sediment	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
TW1	n/a	✓	n/a	✓	—	10.11'	—	DTP: 10.11'
TW2	n/a	✓	n/a	✓	—	10.41'	—	DTP: 9.99'

Additional Comments: _____

Notes: _____

- (1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

GAS PROBE INSPECTION AND MONITORING SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Corrie Bondy

SUPERVISOR: C. Bondy

DATE OF INSPECTION: 08/17/16 To
(MM DD YY)

<i>Gas Probe I.D. Number</i>	<i>Lock</i>	<i>Surface Seal</i>	<i>Protective Casing</i>	<i>Pressure Reading</i>	<i>Time of Reading</i>	<i>Measurement Method</i>	<i>Other Comments</i>
GP-01	n/a	✓	n/a	0.00	820	Digital Manometer	
GP-02	n/a	✓	n/a	0.00	825		
GP-03	n/a	✓	n/a	+0.33	830		
GP-04	n/a	✓	n/a	+0.25	835		
GP-05	n/a	✓	n/a	0.00	840		
GP-06	n/a	✓	n/a	+0.02	845		
GP-07	n/a	✓	n/a	0.00	850		
GP-08	n/a	✓	n/a	-0.21	855	↓	

Additional Comments: _____

Notes:

- (1) Inspections will be completed quarterly during and subsequent to operation of the Multi-Phase Extraction (MPE) System for up to 10 years.

Attachment A.2
City of Dearborn Photo Log



Photo 1 – Southerly fence line looking east



Photo 2 – Westerly fence line looking south



Site Photographs



Photo 3 – Northerly fence line looking west



Photo 4 – Easterly fence line looking south



Site Photographs



Photo 5 – Driveway looking south



Photo 6 – Driveway looking west



Site Photographs



Photo 7 – Driveway looking north



Photo 8 – Pond looking northwest



Site Photographs



Photo 9 – Pond looking southeast

Site Photographs

